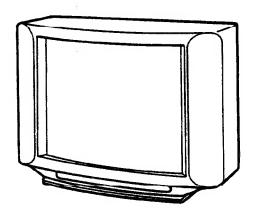
KV-2566AS/2966AS

SERVICE MANUAL



Australian Model

KV-2566AS

Chassis No. SCC-D23K-A

KV-2966AS

Chassis No. SCC-D23J-A

GP-1A CHASSIS

MODELS OF THE SAME SERIES			
(V-2566AS/2966AS			

SPECIFICATIONS

Power requirements

Color system

110 - 240 V AC, 50/60 Hz

Power consumption

Indicted on the rear of the TV PAL, PAL60, NTSC3.58, NTSC4.49

Inputs

Antenna 75-ohm

VIDEO INPUT jacks: phono jacks

Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms, high impedance

S-TERMINAL VIDEO INPUT jack:

4-pin DIN

Television system and Channel coverage

Television system	B/G
Low VHF band	E2 - E4
High VHF band	E5 - E12
UHF	E21 - E68
CATV	S01 - S03 S1 - S20

Audio output

5W+5W

SUPER WOOFER speaker: 15 W

Outputs

VIDEO OUTPUT jacks: phono jacks

Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms, high impedance

Model KV-	2566AS	2966AS
Picture tube Apporx. cm (inches)	64 (25)	72.4 (29)
Dimensions (w/h/d, mm)	689 x 513 x 494	782 x 577 x 515
Weight (kg)	35	47

Design and specifications are subject to change without notice.



TRINITRON® COLOUR TV

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION, REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

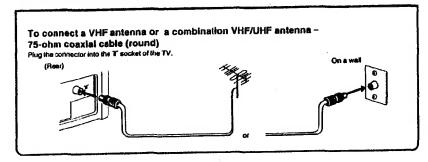
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating instruction Manual remein as in the manual.

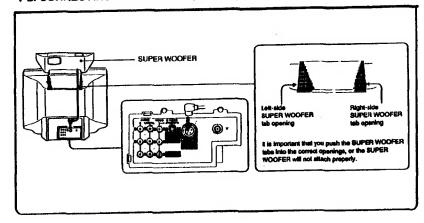
Operating Instructions

Before operating the TV, please read this manual thoroughly and retain it for future reference.

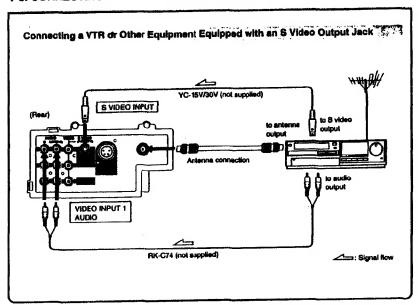
1-1. ANTENNA CONNECTION



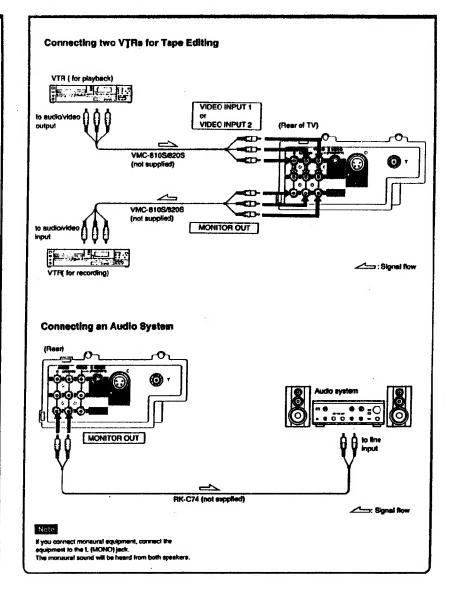
1-2. CONNECTING THE SUPER WOOFER (EXCEPT for Model KV-2566AS)



1-3. CONNECTING A VTR OR OTHER EQUIPMENT



ယ



Presetting TV Channels Automatically

(0 to 29) in numerical sequence from channel number 1.

You can preset up to 30 channels automatically to the program position numbers

2 Press the PRESET ON/OFF button 1.



3 Press the AUTO PROGR button 2.



* * * --- 1

Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.

Example: To preset a channel in program number 8

- 1 Press the PRESET ON/OFF button.
- 2 Press the PROGR +/- buttons until "6" appears.
- 3 Press the TV SYSTEM button to select your TV system.
- 4 Press the MANUAL PROGR +/- builtons until the channel you want appears.
- 5 Press the PRESET ON/OFF bullon.

To preset other channels Repeat steps 1 through 5.

Skipping Program Positions

You can skip the unused or undestred program position when you are selecting a program using PROGR +/- buttons.

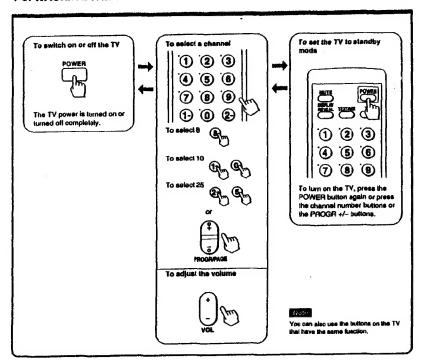
Example: To skip program position &

- 1 Press the PROGR +/- buttons until "8" appears.
- 2 Press the PRESET ON/OFF button.
- 3 Press the PIC MODE button on the Remote Commander.
- 4 Press the PRESET ON/OFF button.

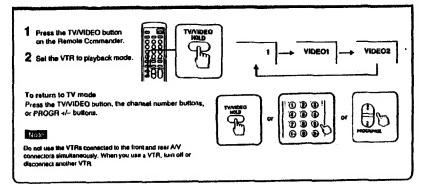
To akip other channels Repeat steps 1 through 3.

To cancel the skip setting Preset a channel onto the position number, following the steps in 'Presetting TV channels automatically' or 'Presetting channels directly'.

1-5. WACHING THE TV



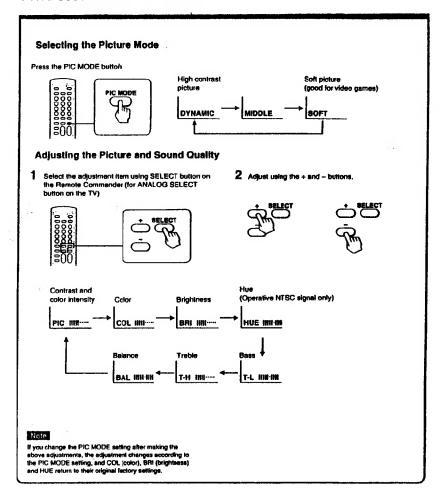
1-6. WATCHING THE VIDEO INPUT

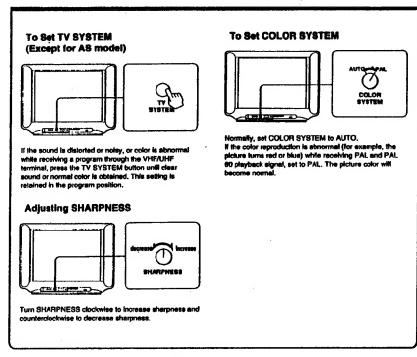


Ċ

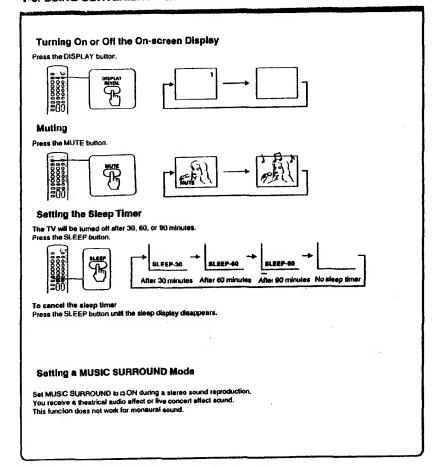
1-7. ADJUSTING THE PICTURE AND SOUND

6





1-8. USING CONVENIENT FEATURES



Selecting the Sound (Stereo or Bitingual) You Want

Press the A/B/MTS button until you receive the sound you want. The sound changes and the corresponding indicator lights up as shown in the following table.



Notes

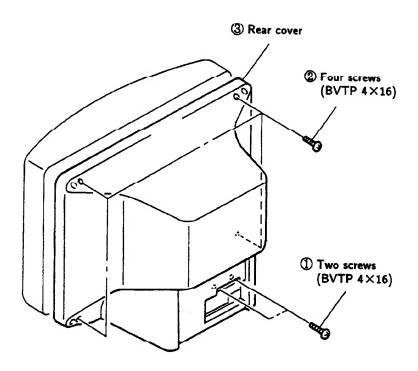
If the signal is very week, the sound becomes monsural.
 If the stereo sound is noisy, select "regular" or "mono".
 The sound becomes monaural and the noise will be reduced.

When receiving German system program

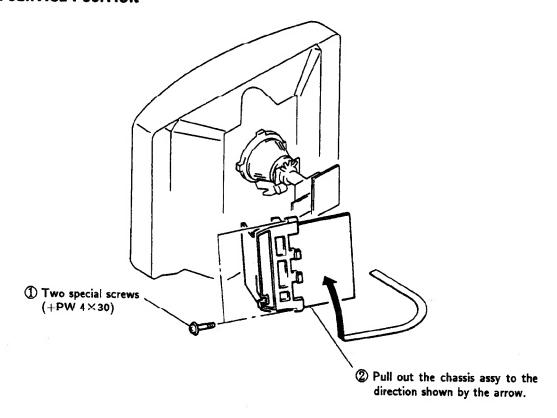
Broadcasting	Selected sour	d
German Stereo	Sound (Indicator)	Stereo (A + B)
German	Sound (Indicater)	(A) → B → (A+B) 7

SECTION 2 DISASSEMBLY

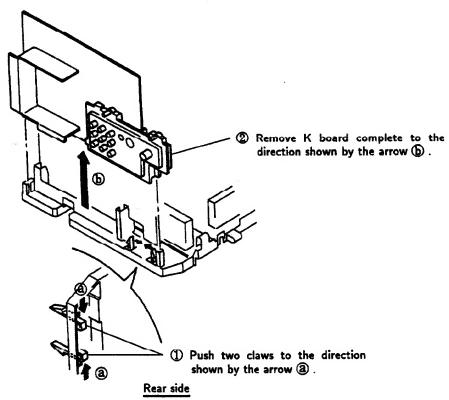
2-1. REAR COVER REMOVAL

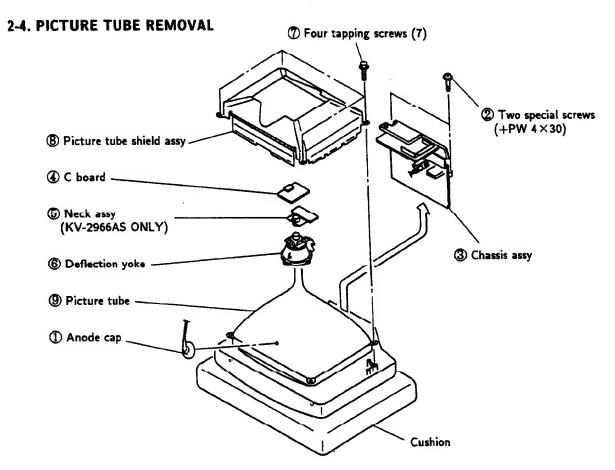


2-2. SERVICE POSITION



2-3. K BOARD REMOVAL

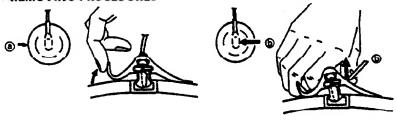




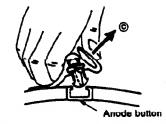
· REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES



① Turn up one side of the rubber cap in ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

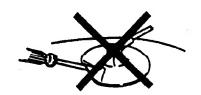


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ② Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control normal

BRIGHTNESS control----- normal

Perform the adjustments in order as follows:

Preparations:

- Feed in the white pattern signal.
- Before starting degauss the entire screen.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast
 Bightness normal
- Position neck ass'y as shown in Fig 3-2.
 (29 inch only)
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Fig. 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Fig. 3-4.)

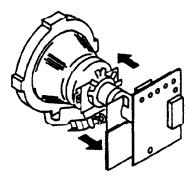
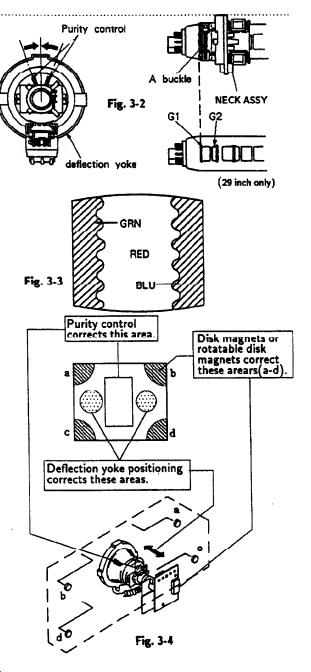


Fig. 3-1

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

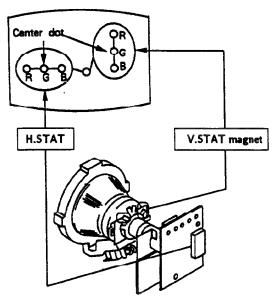
- 1. Color-bar Pattern Generator
- 2. Degausser
- 3. Digital multimeter



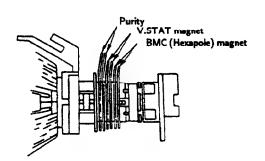
3-2. CONVERGENCE

Preparations:

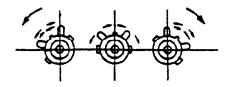
- Before starting perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.
- (1) Horizontal and Vertical Static Convergence



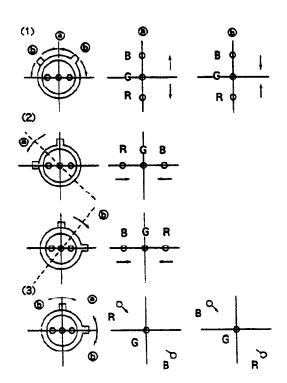
- 1. Adjust H.STAT VR to converge red, green and blue dots in the center of the screen. (Horizontal movement)
- Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not coverge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)



● Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



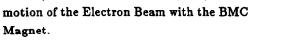
4. When the V.STAT magnet is moved in the direction of arrow (a) and (b) red, green and blue dots move as shown below.

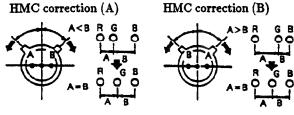


If the blue dot do not Converge with red and green dots, perform following steps.

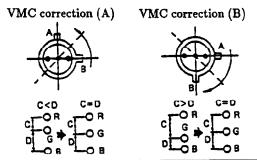
● HMC and VMC correction for BMC (Hexapole) Magnet.

1. HMC (Horizontal Miss Convergence) correction and motion of the Electron Beam with the BMC





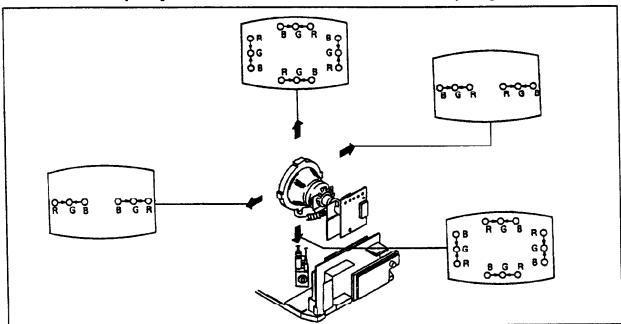
2. VMC (Vertical Miss Convergence) correction and motion of the Electron Beem with the BMC Magnet.

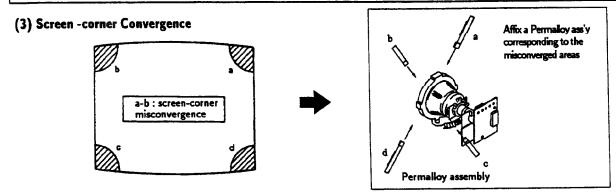


(2) Dynamic Convergence Adjustment Preparations:

- Before starting perform Horizontal and Vertical static convergence Adjustmet.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





3-3. FOCUS

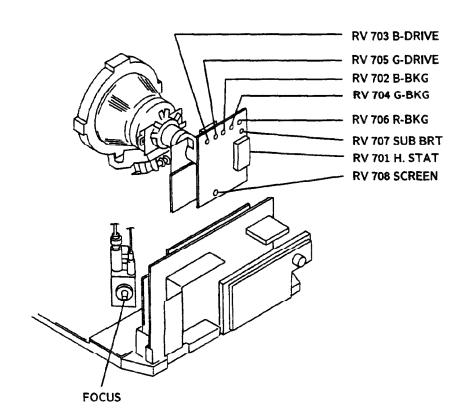
Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

- 1. Input dots patteren.
- Set the PIC control at minimum and set the BRT control at maximum.
- 3. Confirm the BKG voltage is less than 180 Vdc when turning RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG).
- 4. Note the color when becomes visible first when turning RV 708 (SCRN).

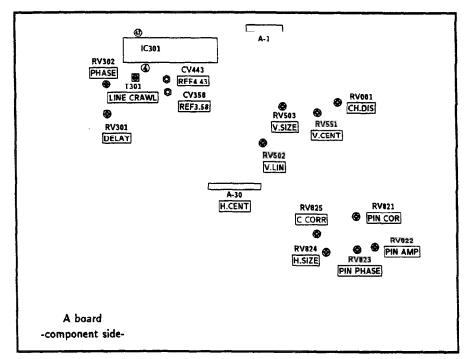
[WHITE BALANCE (Cut off)]

- 1. Input collor bar signl.
- Set the PIC control to minimum and set the BRT control at normal.
- 3. Turn RV 703 (B.DRIVE) and RV 705 (G.DRIVE) fully clockwise.
- Set RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG) to minimum.
- 5. Turn RV 707 (SUB BRT) slowly to obtain a faintly visible blue stripe.
- 6. Switch over all white signal.
- 7. Adjust BKG controls for best white balance.
- Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
- 9. Repeat steps 7 and 8.



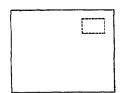
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



Channel display POSITION ADJUSTMENT (RV001)

- 1. Set PIC control to maximum.
- 2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A · P · C ADJUSTMENT (CV443) (PAL)

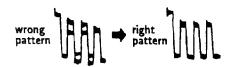
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Short circuit between pin (4) and pin (6) of 1C301 with jumper.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

REF OSC 3.58 ADJUSTMENT (CV358) (NTSC 3.58)

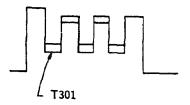
- 1. Short circuit between pin (4) and pin (6) of IC301 with a jumper.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Input NTSC 3.58 color-bar signal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

- ANTI PAL ADJUSTMENT
- 1. Input PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connector.
- Adjust RV301 (DELAY) and RV302 (PHASE) to obtain the waveform as shown below.
- LINE CRAWLING ADJUSTMENT

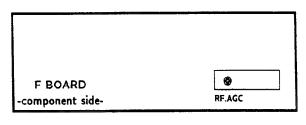


- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connector.
- 4. Adjust T301 for minimum line crawling.



RV822 PIN ANP (PINCUSHION AMPLIFIER) RV823 PIN PHASE (PINCUSHION PHASE) RV821 PIN COR (PINCUSHION CORRECT) RV825 C.CORR(CORNER CORRECT) RV824 H.SIZE (HORIZONTAL SIZE) **RV503 V.SIZE (VERTICAL SIZE) RV502 V.LIN (VERTICAL LINEARITY)** CN550 H.CENT (HORIZONTAL CENTER) **RV551 V.CENT (VERTICAL CENTER)**

4-2. F BOARD ADJUSTMENT



RF AGC ADJUSTMENT (IF1)

- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

5-5. SEMICONDUCTORS





CXK5864BSP-10L



KEY-C00SV-F



LA7016



LM393P RC4558P 9T24C02AB1 TEA2031A



LM1036N



L78LR05D-MA



MC14052BCP MC14049UBCP TDA8444 µ PD4053BC



MC140665CF MC33079P



PCA84C840P/054 TC8011N



(Top view)

RC78L09A



RC7812FA



STR-65741



TA8662N



TDA2009A



TD6710AN







μ PC7893HF



DTA114ES DTC114ES DTC124ES DTC143TS DTC144ES 2SC3327-A



2SA1220A-P 2SC2611 2SC2688-LK

26A1221-L 2SB734-34 2SC2958-L

2SD774-34

2SA1306A-Y 2SC3298B-Y





μ PC1498H



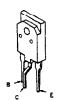
µ PC574J



2SC2216



25C4927-01



2SD1408-Y



2SK669



D4SB60L-F



D5LC20U



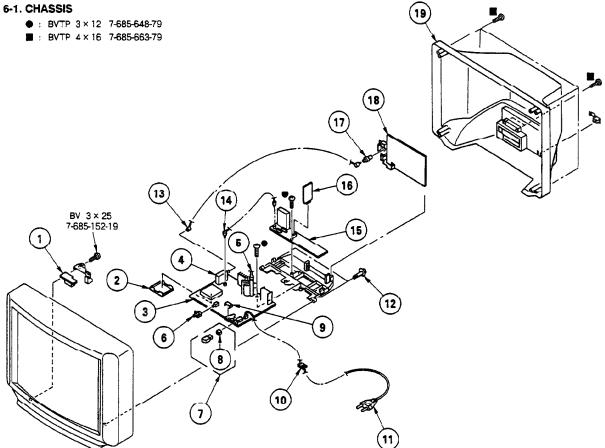
EGP30GL-6072 ERC06-15S RU-1P RU-3AM SEL1222R-C MC932 RBV-406H-01 ERD29-08J RU4DS RD10ES-B2 RD10ES-B3 RD13ES-B2 RD13ES-B2 RD39ES-B2 RD5.1ES-B2 RD6.2ES-B2 RD6.8ES-B3 RD7.5ES-B3 RD7.5ES-B3 RD9.1ES-B3 RD9.1ES-B3 1SS119 EU2Z ES1F-N R2K WG713A MC911 RD10SB1 MC921 U05G

SECTION 6 EXPLODED VIEWS

NOIE:

- · Items with no part number and no des-
- Items with no part number and no description are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

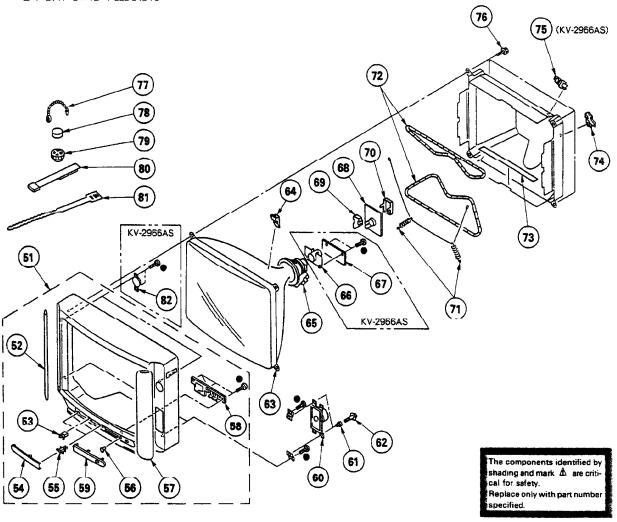
The components identified by shading and mark A are critical for safety. Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION REM	MARK REF. NO. PART NO.	DESCRIPTION	REMARK
1 *1-644-571-12 2 *4-394-974-01 3 *A-1297-054-A	CASE (BOTTON LID), SHIELD A BOARD, COMPLETE (KV-2566AS) A BOARD, COMPLETE (KV-2966AS)	11	AS BOARD SOCKET, ANTENNA (PAL) K BOARD, COMPLETE (KY-2566AS)	

6-2. PICTURE TUBE

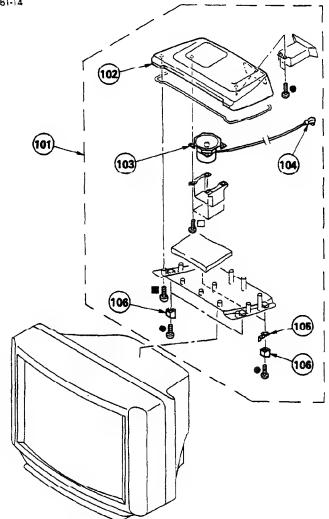
■ : BVTP 3×12 7-685-648-79



REF. NO.	. PART NO.	DESCRIPTION	REMARK	REF.N	O. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55 56 57 58 59 60 61 62 63 64	X-4030-784-1 X-4030-608-5 4-038-254-01 4-037-263-01 4-392-036-01 X-4030-708-2 X-4030-528-8 4-032-761-01 *4-389-517-01 4-038-253-01 4-037-255-01 4-037-255-01 4-037-253-21 1-503-902-11 *4-379-192-01 A-379-192-01 A-739-3834-05 3-704-495-01 A-451-311-31	CABINET ASSY (WITH BEZEL ASSY) (KV CABINET ASSY (WITH BEZEL ASSY) (KV GRILLE (L), SPEAKER (KV-2566AS) GRILLE (L), SPEAKER (KV-2966AS) CATCHER, PUSH DOOR ASSY, CONTROL (KV-2966AS) DOOR ASSY, CONTROL (KV-2966AS) SHAFT (S), DOOR GUIDE (R), LIGHT GRILLE (R), SPEAKER (KV-2566AS) BUTTON, MULTI PANEL, CONTROL SPEAKER CUSHION, SPEAKER SCREW, TAPPING, STEP PICTURE TUBE (A59JWB11X) (KV-256 PICTURE TUBE (A68JYX11X) (KV-256 SPACER, DY DRFLECTION YOKE (Y25FYA) (KV-256	52~59 -2566AS) 52~59 -2966AS) 6AS) 6AS)	67 68 69 70 71	*A-1342-195-A *A-1331-243-A *A-1331-073-A *A-379-167-01 *4-390-911-01 *4-390-907-01 *4-303-774-99 *4-369-318-00 *A-1426-385-11 *A-372-556-11 *A-385-725-01 *4-387-284-01 *4-390-505-01 *4-390-505-01 *4-390-505-01 *4-390-505-01 *4-390-608-0 X-4309-608-0 X-4309-608-0 X-4387-214-1 3-701-007-00	V4 BOARD, COMPLETE (KV-2966AS) C BOARD, COMPLETE (KV-2966AS) C BOARD, COMPLETE (KV-2966AS) COVER (MAIN), CV (KV-2966AS) COVER (MAIN), CV (KV-2966AS) COVER (REAR LID), CV (KV-2966AS) COVER (REAR LID), CV (KV-2966AS) SPRING, TENSION (KV-2966AS) SPRING, TENSION (KV-2966AS) COIL, DEMAGNETIZATION (KV-2966AS) SHEET, BLOTTING (KV-2966AS) HOLDER, LEAD HOLDER, LEAD (KV-2966AS) SCREW (7), TAPPING CLIP, LEAD WIRE MAGNET, DISK; 10MM \$ MACHET, ROTATABLE DISK; 150MM PERMALOY ASSY, CONVERGENCE (KV- PERMALOY ASSY, CORRECTION BAND, BINDING	(s) (s) (s) (s) (s) (s)
	▲ 1-452-509-42			1	1 503 486 11	SPEAKER (PIEZOELECTRIC TWEETER)	(V-2966AS)

6-3. SPEAKER

● : BVTP 3 × 12 7-685-648-79 ■ : BVTP 4 × 16 7-685-663-79 □ : BVTP 4 × 12 7-685-661-14



REF.NO	- PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101 102 103	X-4030-531-1	BOX ASSY, SP (KV-2966AS) COVER ASSY, TOP (KV-2966AS) SPEAKER (10CM) (KV-2966AS)	102~106	104 105 106	1-575-109-11 4-037-240-11 4-037-244-01	CORD, CONNECTION (KY-2966AS) STOPPER (KY-2966AS) FOOT (KY-2966AS)	

KV-2566SNT/2966SNT

SERVICE MANUAL

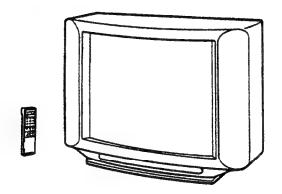


KV-2566SNT

Chassis No. SCC-F86B-A

KV-2966SNT

Chassis No. SCC-F86A-A



GP-1A CHASSIS

KV-2566SNT/2966SNT	
KV-2153SN	

SPECIFICATIONS

Power requirements Power consumption

Color system

220-240 V AC, 50/60 Hz Indicated on the rear of the TV PAL,PAL60,NTSC3.58,NTSC4.43 Audio output

Inputs

Television system and Channel coverage

Television system	B/G
Low VHF band	1-3
High VHF band	4-10

Outputs

5W+5W

SUPER WOOFER speaker: 15W

Antenna 75-ohm

VIDEO INPUT jacks: phono jacks

Video: 1 Vp-p, 75 ohms

Audio: 500 mVrms,high impedance

S VIDEO INPUT jack:

4-pin DIN

MOMITOR OUT jacks: phono jacks

Video: 1 Vp-p, 75 chms

Audio: 500 mVrms, high impedance

- Continued on page 2 -



TRINITRON® COLOR TV SONY®

KV-2566SNT/2966SNT

RM-827T

	KV-2566SNT	KV-2966SNT
Picture tube Approx. cm (inches)	64(25)	72.4(29)
Dimensions (w/h/d, mm)	689x513x494	782x577x515
Weight (kg)	38	47

Design and specifications are subject to change without notice.

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		-				

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION, REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

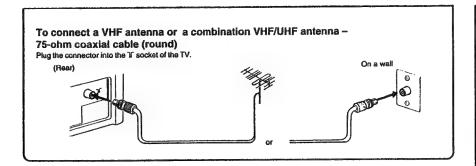
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

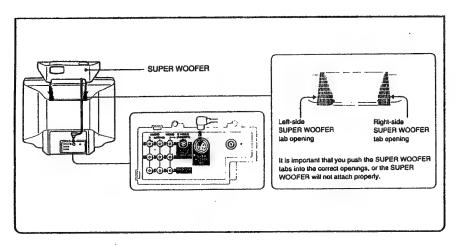
Operating Instructions

Before operating the TV, please read this manual thoroughly and retain it for future reference.

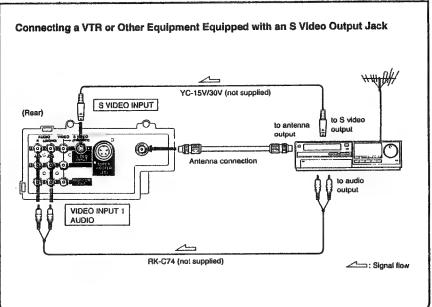
1-1. ANTENNA CONNECTION

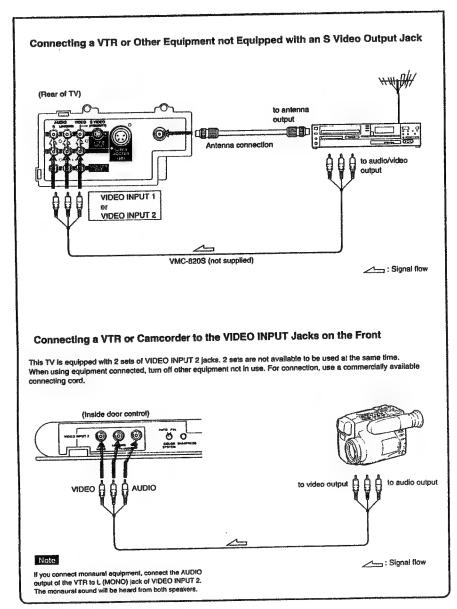


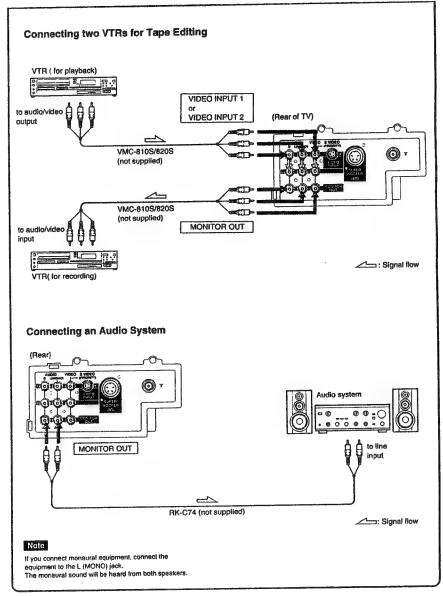
1-2. CONNECTING THE SUPER WOOFER



1-3. CONNECTING A VTR OR OTHER EQUIPMENT







Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.

Example: To preset a channel in program number 8

- 1 Press the PRESET ON/OFF button.
- 2 Press the PROGR +/- buttons until "8" appears.
- 3 Press the TV SYSTEM button to select your TV system.
- 4 Press the MANUAL PROGR +/- buttons until the channel you want appears.
- 5 Press the PRESET ON/OFF button.

To preset other channels Repeat steps 1 through 5.

Skipping Program Positions

You can skip the unused or undesired program position when you are selecting a program using PROGR +/- buttons.

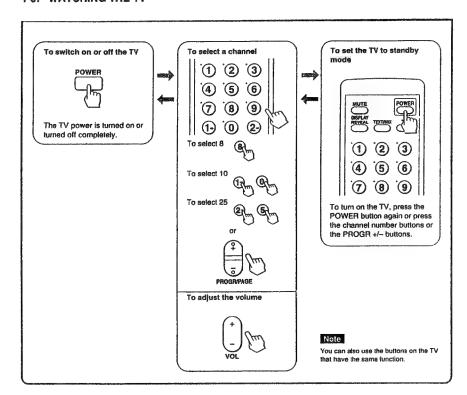
Example: To skip program position 8

- 1 Press the PROGR +/- buttons until "8" appears.
- 2 Press the PRESET ON/OFF button.
- 3 Press the PIC MODE button on the Remote Commander.
- 4 Press the PRESET ON/OFF button.

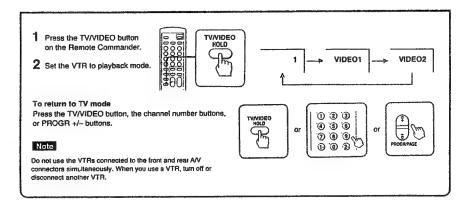
To skip other channels Repeat steps 1 through 3.

To cascel the skip setting Preset a channel onto the position number, following the steps in "Presetting TV channels automatically" or "Presetting channels directly".

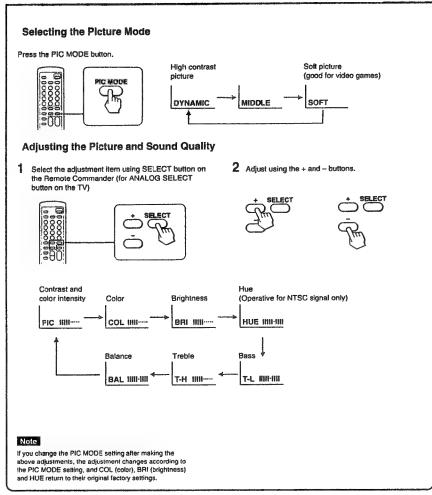
1-5. WATCHING THE TV



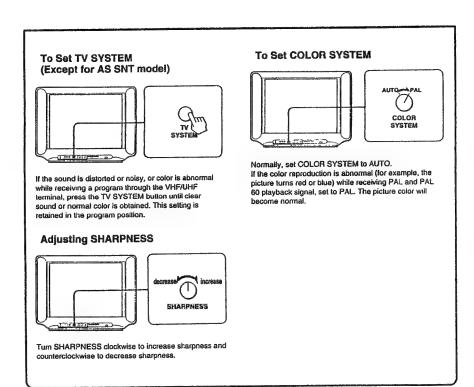
1-6. WATCHING THE VIDEO INPUT



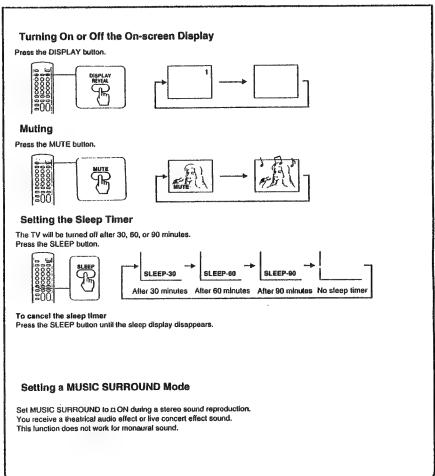
1-7. ADJUSTING THE PICTURE AND SOUND



6-

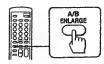


1-8. USING CONVENIENT FEATURES



Selecting the Sound (Stereo or Bilingual) You Want

Press the A/B/MTS button until you receive the sound you want. The sound changes and the corresponding indicator lights up as shown in the following table.



KV-2566MI/2966MI/2566MNT/2966MNT/2566SNT/2986SNT

-When receiving NICAM system program

Broadcasting	Selected sound			
NICAM Stereo	Sound (Indicator)	Stereo Regular (NICAM + A + B) (NICAM)		
NICAM bilingual	Sound (Indicator)	(NICAM + A) B (NICAM + B)	Regular (NICAM)	
NICAM mono	Sound (Indicator)	Mono Regular (NICAM + A) (NICAM)		

Notes

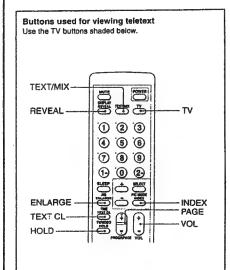
- . If the signal is very weak, the sound becomes monaural.
- If the stereo sound is noisy, select "regular" or "mono".
 The sound becomes monaural and the noise will be reduced.

KV-2566AS/2966AS/2566MNT/2966MNT/2566SNT/2966SNT

--- When receiving German system program

Broadcasting	Selected sound		
German Stereo	Sound (Indicator)	Stereo (A + B)	
German bilingual	Sound (Indicator)	A B A + B (A + B)	

1-9. VIEWING TELETEXT



3 Press the TEXT/MIX button.

To display the index page

Press the INDEX button.
If no signal is being broadcast, page 100 appears.

1 Press the TV button to return TV mode.

2 Select the TV channel you want.

To receive the teletext of a different TV channel

To rapidly access the next or preceding page Press the PAGE + or - button.

To superimpose the teletext on the TV picture Press the TEXT/MIX button twice in TV mode. To view the teletext only, press the TEXT/MIX button again.

To prevent a teletext page (subpage) from being updated or changed Press the HOLD button. The HOLD symbol ∰ appears at the top left corner of the screen. To resume normal teletext reception, press the TEXT/ MIX button.

To enlarge the teletext display Press the ENLARGE button. Press once to enlarge the upper half; press again to enlarge the lower half; press again to return to the normal display.

To reveal concealed information such as the answer to a quiz Press the REVEAL button.
Press again to conceal the answers.

To watch the TV program while waiting for a requested page to be displayed

- 1 Key in the page you want.
- 2 Press the TEXT CL button. The TV program appears. When the requested page has been captured, the page number appears at the top left corner.
- 3 To view the page, press the TEXT/MIX button.

Operation

To view the teletext

- 1 Select the TV channel for the teletext service you want.
- Press the TEXT/MIX button.
 A teletext page appears.
 Once the TEXT/MIX button has pressed, you cannot change the channel.
- 3 Key in the three digits (the page number) using the number buttons.

The requested teletext page appears.

If you made a mistake, complete three digits with any number. Then, key in the correct page number.

To return to TV mode Press the TV button.

To adjust the volume
Use the VOL +/- buttons.

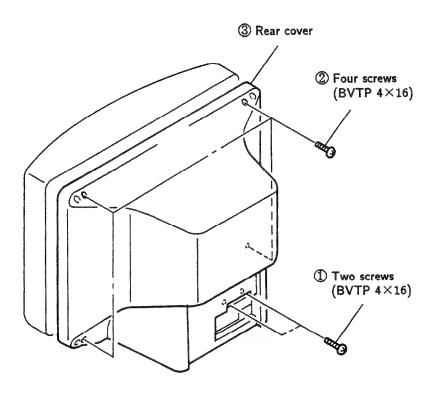
The on-screen display does not appear.

Note

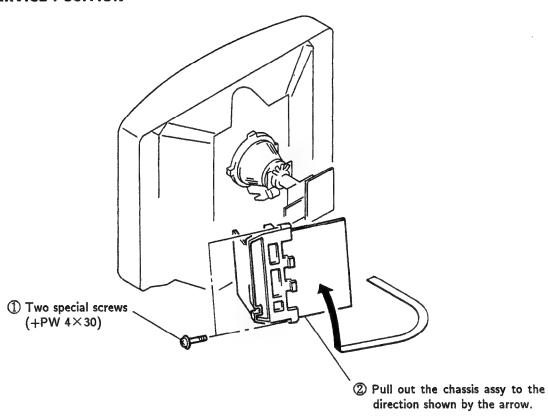
You cannot adjust the picture. The SELECT +/- buttons (or ANALOG SELECT +/- on the TV) do not work for the teletext.

SECTION 2 DISASSEMBLY

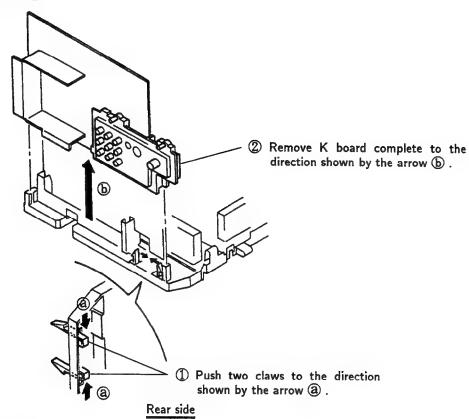
2-1. REAR COVER REMOVAL



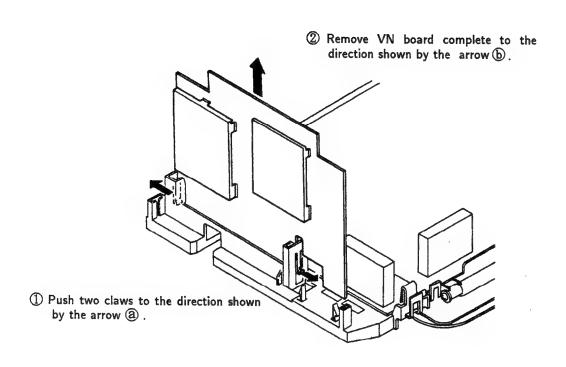
2-2. SERVICE POSITION

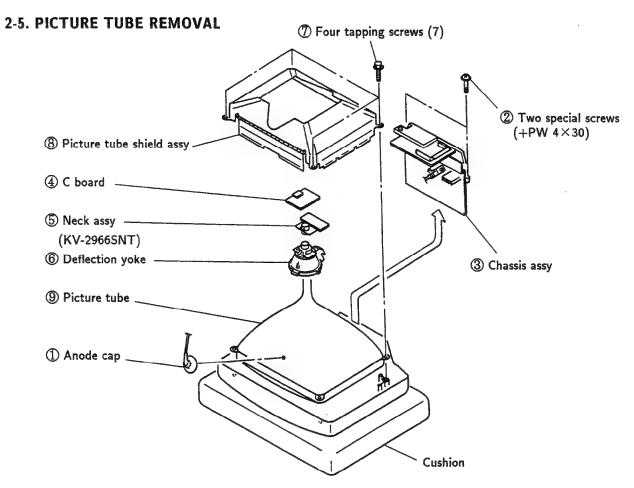


2-3. K BOARD REMOVAL



2-4. VN BOARD REMOVAL

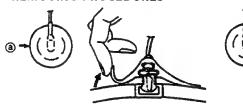




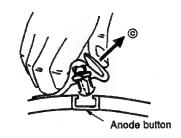
· REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES



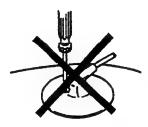


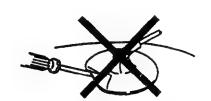


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook
 - A material fitting called as shatter-hool terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control----- normal BRIGHTNESS control----- normal

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar Pattern Generator
- 2. Degausser
- 3. Digital multimeter

Preparations:

- Feed in the white pattern signal.
- Before starting degauss the entire screen.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast Bightness normal
- Position neck ass'y as shown in Fig 3-2.
 (29 inch only)
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Fig. 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4.)

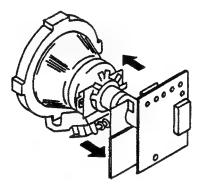


Fig. 3-1

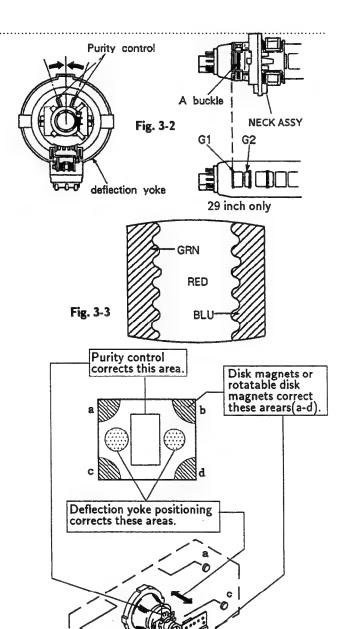
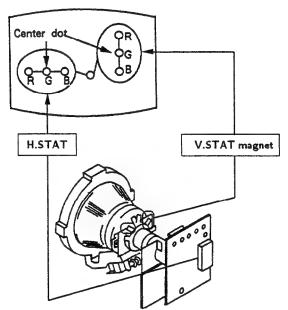


Fig. 3-4

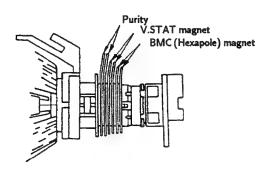
3-2. CONVERGENCE

Preparations:

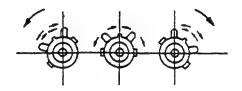
- Before starting perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.
- (1) Horizontal and Vertical Static Convergence



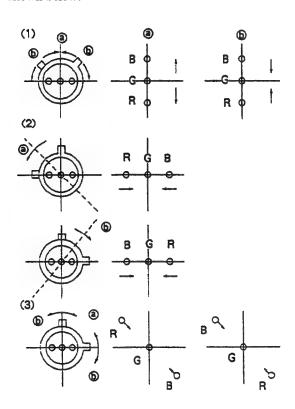
- Adjust H.STAT VR to converge red, green and blue dots in the center of the screen. (Horizontal movement)
- 2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not coverge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)



 Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ② and ⑤ red, green and blue dots move as shown below.

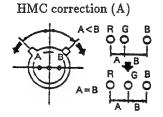


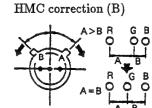
If the blue dot do not Converge with red and green dots, perform following steps.

HMC and VMC correction for BMC (Hexapole)
 Magnet.

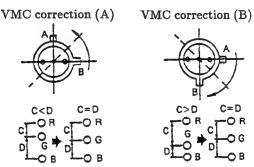
1. HMC (Horizontal Miss Convergence) correction and motion of the Electron Beam with the BMC

Magnet.





2. VMC (Vertical Miss Convergence) correction and motion of the Electron Beem with the BMC Magnet.

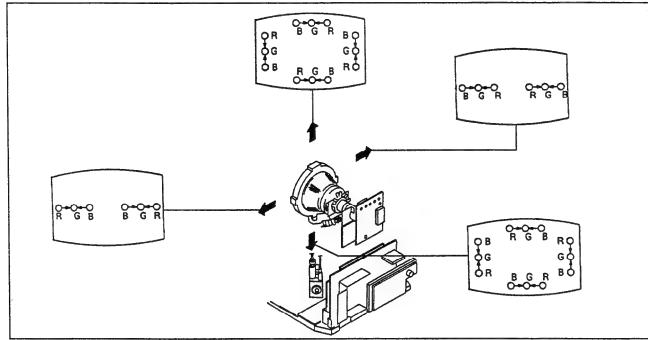


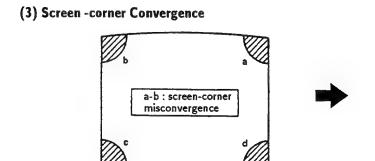
(2) Dynamic Convergence Adjustment

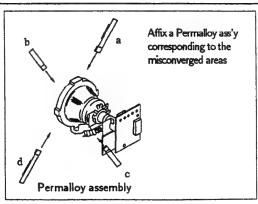
Preparations:

- Before starting perform Horizontal and Vertical static convergence Adjustmet.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.







3-3. FOCUS

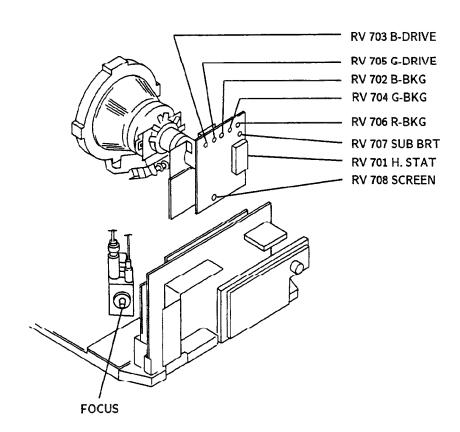
Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE [SCREEN(G2)]

- 1. Input dots patteren.
- 2. Set the PIC control at minimum and set the BRT control at maximum.
- 3. Confirm the BKG voltage is less than 180 Vdc when turning RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG).
- 4. Note the color when becomes visible first when turning RV 708 (SCRN).

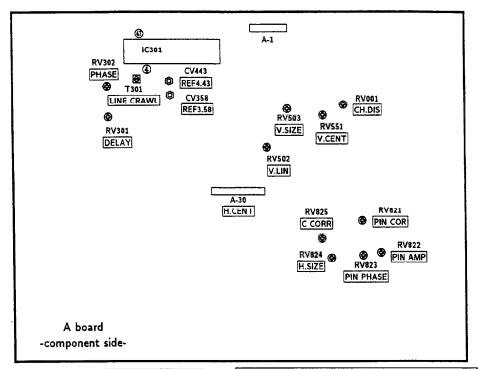
[WHITE BALANCE (Cut off)]

- 1. Input collor bar signl.
- Set the PIC control to minimum and set the BRT control at normal.
- 3. Turn RV 703 (B.DRIVE) and RV 705 (G.DRIVE) fully clockwise.
- Set RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG) to minimum.
- 5. Turn RV 707 (SUB BRT) slowly to obtain a faintly visible blue stripe.
- 6. Switch over all white signal.
- 7. Adjust BKG controls for best white balance.
- Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
- 9. Repeat steps 7 and 8.



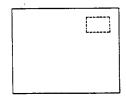
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



Channel display POSITION ADJUSTMENT (RV001)

- 1. Set PIC control to maximum.
- 2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A · P · C ADJUSTMENT (CV443) (PAL)

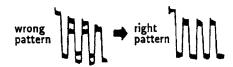
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Short circuit between pin (4) and pin (5) of IC301 with jumper.
- 4. Adjust CV443 for suitable color intensity.
- 5. Remove a jumper.

REF OSC 3.58 ADJUSTMENT (CV358) (NTSC 3.58)

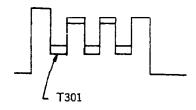
- 1. Short circuit between pin 4 and pin 4 of IC301 with a jumper.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Input NTSC 3.58 color-bar signal.
- 4. Adjust CV358 for suitable color intensity.
- 5. Remove the jumper.

ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

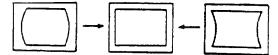
- ANTI PAL ADJUSTMENT
- 1. Input PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin 3 of A-1 connec
- 4. Adjust RV301 (DELAY) and RV302 (PHASE) obtain the waveform as shown below.
- LINE CRAWLING ADJUSTMENT



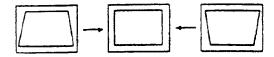
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL and BRT controls to normal.
- 3. Connect the oscilloscope to pin (3) of A-1 conne
- 4. Adjust T301 for minimum line crawling.



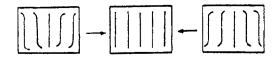
RV822 PIN ANP (PINCUSHION AMPLIFIER)



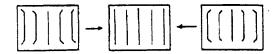
RV823 PIN PHASE (PINCUSHION PHASE)



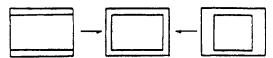
RV821 PIN COR (PINCUSHION CORRECT)



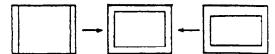
RV825 C.CORR(CORNER CORRECT)



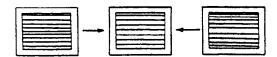
RV824 H.SIZE (HORIZONTAL SIZE)



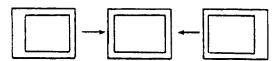
RV503 V.SIZE (VERTICAL SIZE)



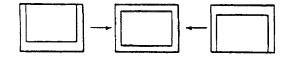
RV502 V.LIN (VERTICAL LINEARITY)



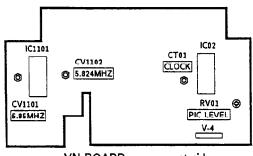
CN550 H.CENT (HORIZONTAL CENTER)



RV551 V.CENT (VERTICAL CENTER)



4-2. VN BOARD ADJUSTMENTS



VN BOARD -component side-

5.85MHz (CARRIER Freq) Adjustment (CV1101)

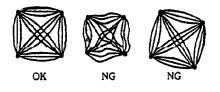
- Tune in a NICAM signal.
- 2. Connect the frequency counter to pin ® of IC1101.
- 3. Adjust CV1101 so that frequency becomes 5.85MHz±30Hz.

• Confirmation

Connect the X input of an oscilloscope to IC1101 pin (3), and the Y input to pin (3).

Confirm waveform by X-Y mode.

Confirm that waveform as OK observed clearly and without tilt.



5.824MHz (Clock Freq) Adjustment (CV1102)

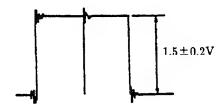
- 1. Tune in a NICAM signal.
- 2. Connect the frequency counter to pin 26 of IC1101.
- 3. Adjust CV1102 so that frequency becomes 5.824MHz±30Hz.

CLOCK ADJUSTMENT (CT01)

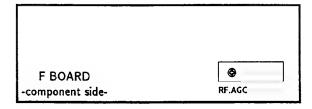
- 1. Disconnect V-1 connector.
- 2. Connect frequency counter to pin (9) of IC02.
- 3. Adjust CT01 to 6.0MHz ±50Hz.
- 4. Connect V-1 connector.

PICTURE LEVEL ADJUSTMENT (RV01)

- 1. Connect oscilloscope to G output of V-4 connector.
- 2. Adjust RV01 so that G output level (black level to white peak) is $1.5\pm0.2V$.



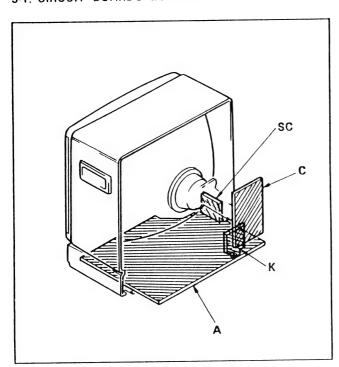
4-3. F BOARD ADJUSTMENT



RF AGC ADJUSTMENT (IF1)

- 1. Receive a strong off-air signals.
- 2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

5-1. CIRCUIT BOARDS LOCATION



- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W

- : nonflammable resistor.
- twv : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 $\,M\Omega\,$ digital multimeter.
- Readings are taken with a color-bar signal input. no mark: with PAL color-bar signal received.
-): with SECAM color-bar signal received.
- Voltage variations may be noted due to normal production tolerances
- : signal path.

Reference Information

RESISTOR METAL FILM : RN : RC SOLID

NONFLAMMABLE CARBON : FPRD NONFLAMMABLE FUSIBLE : FUSE

NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB

COIL : LF-8L MICRO INDUCTOR CAPACITOR : TA **TANTALUM**

: PS STYROL POLYPROPYLENE : PP

: PT MYLAR

METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE

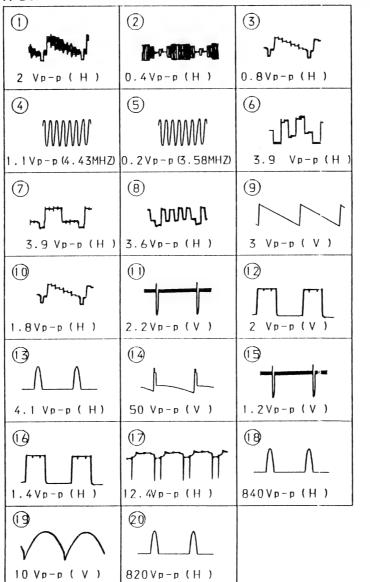
BIPOLAR : ALB

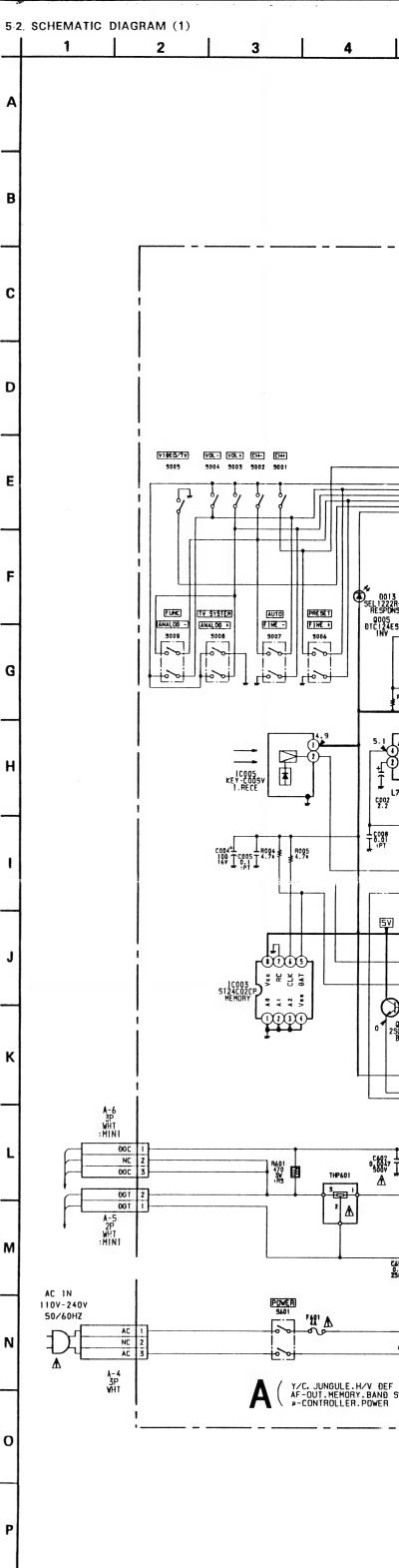
HIGH TEMPERATURE : ALT

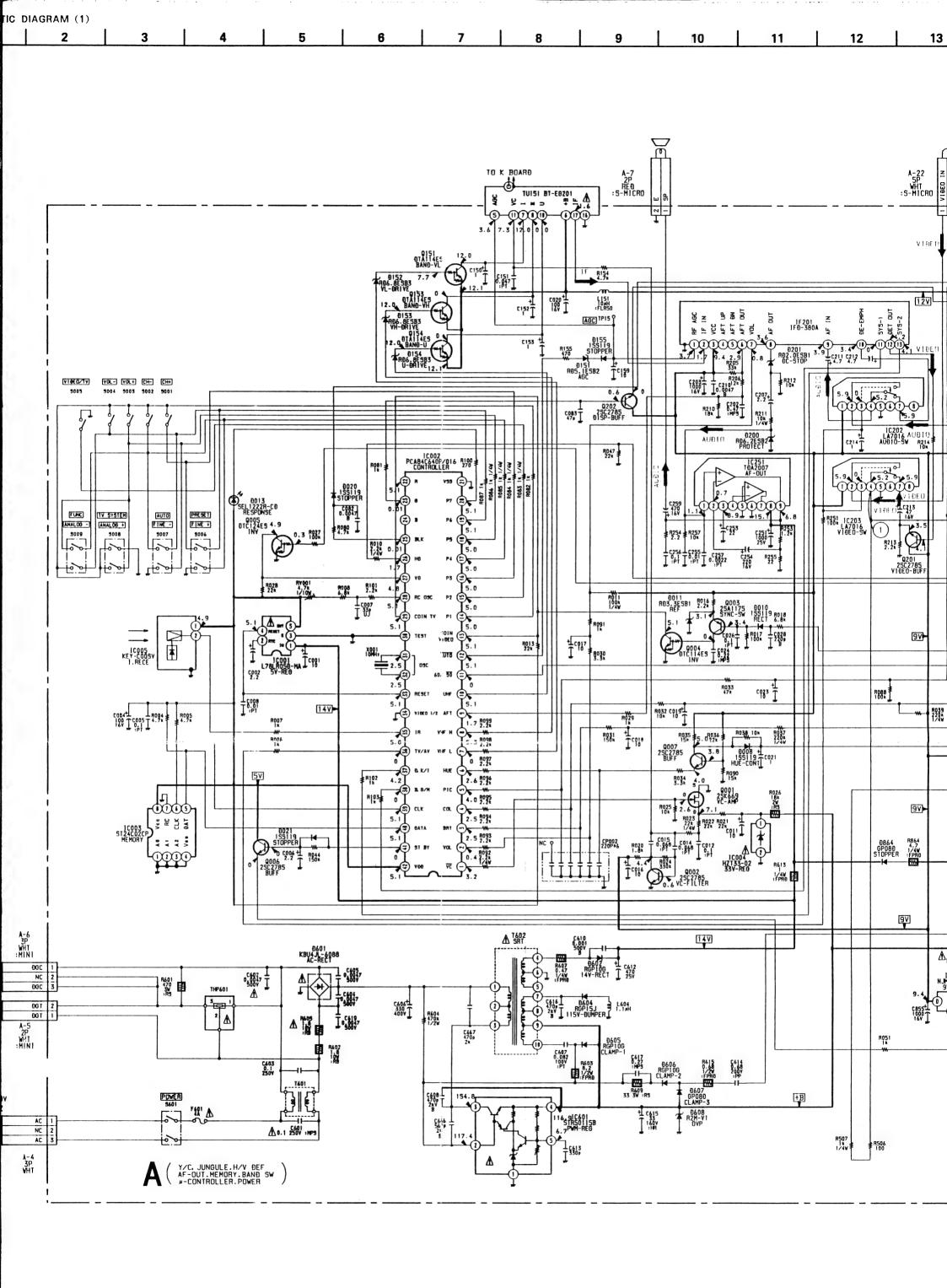
HIGH RIPPLE : ALR

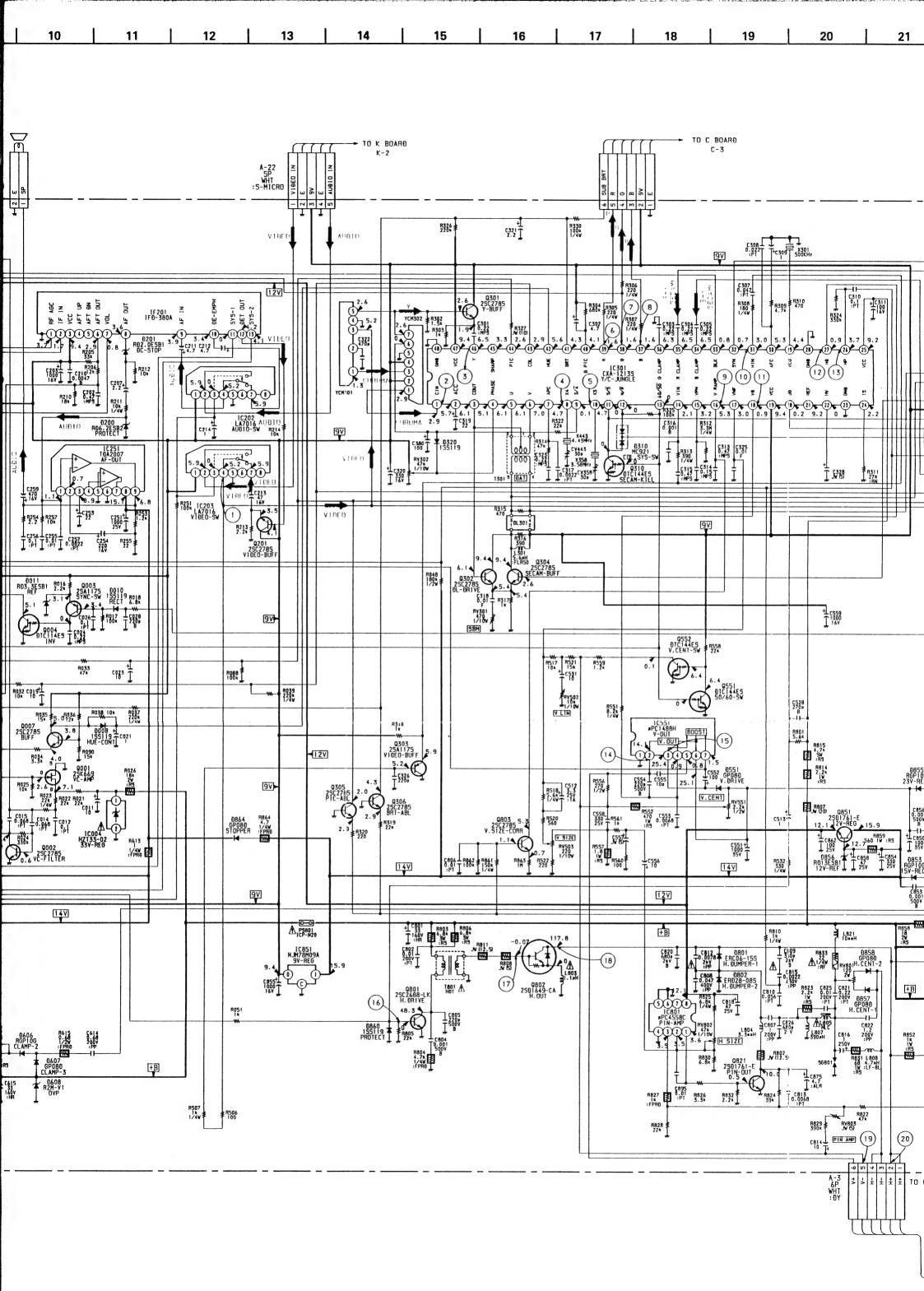
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

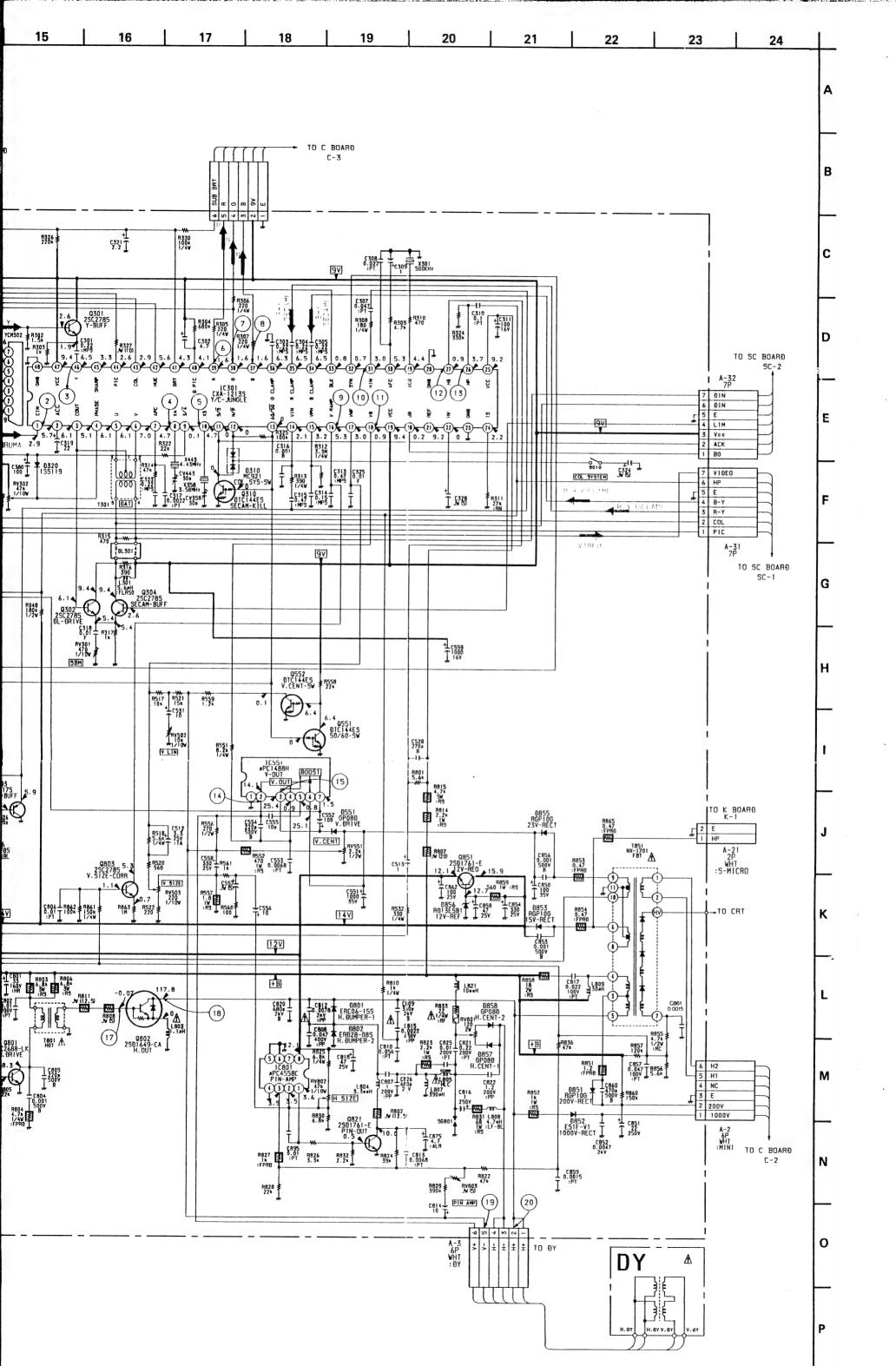
A BOARD WAVEFORM











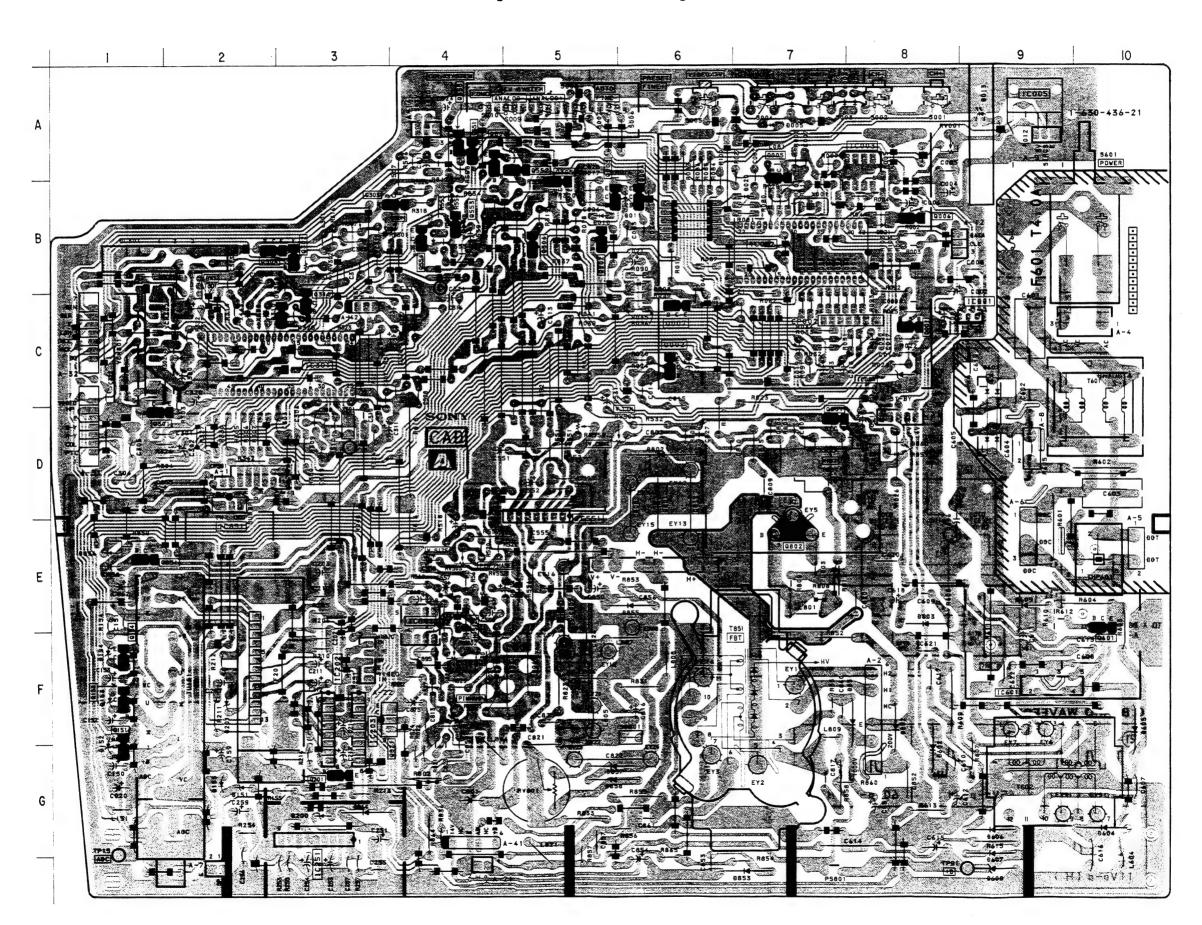
KV-1984MT RM-687C

KV-1984MT RM-687C

5-3. PRINTED WIRING BOARD (1) -CONDUCTOR SIDE-

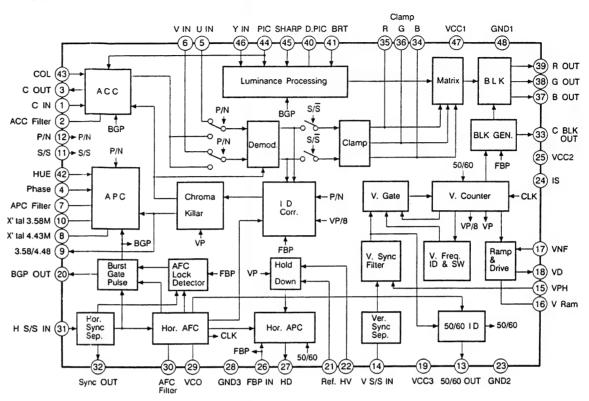
Y/C, JUNGLE, H/V DEF AF-OUT, MEMORY, BAND SW µ -CONTROLLER, POWER





IC	DIC	DIODE		LINE
IC001 C-9 IC002 B-7	D008 D010	B-6 B-5	DL301	B-1
IC003 A-8 IC004 C-8 IC005 A-9	D011 D013 D020	B-6 A-9 B-7		
IC202 F-3 IC203 F-3	D020 D021 D151	B-8 F-2	IF BL	OCK F-2
IC251 G-3 IC301 C-3	D152 D153	F-1 F-1		
IC551 D-5 IC601 F-9 IC801 E-4	D154 D155 D200	F-1 F-2 G-3	TUN	ER
IC851 D-2	D201 D310 D320 D551	F-2 C-3 C-2 D-5	TU151	F-2
TRANSISTO		C-9 G-8	CRYSTAL	
Q001 C-8 Q002 C-7	D604 D605	G-10 F-10	X001	B-7
Q003 B-5 Q004 B-6	D606	G-9	X301 X358	D-3 C-2
Q005 A-7	D607 D608	G-9 G-9	X443	C-2
Q006 B-8 Q007 C-6	D801 D802	D-6 D-6		
Q151 F-1 Q153 F-1	D851	F-8		
Q154 F-1	D852 D853	F-8 G-7		
Q201 G-3 Q202 B-5	D855 D856	E-6 E-1		
Q301 D-1 Q302 B-3	D857	G-5		
Q303 B-4	D858 D860	G-5 D-8		
Q304 B-2 Q305 A-5	D864	G-3		
Q306 B-5 Q31Q C-3				
Q551 A-4 Q552 A-5	VAR	IABLE	1	
Q801 D-7 Q802 E-7		STOR	_	
Q803 A-4 Q821 F-3	RV001 RV301	A-8 B-4		
Q851 E-1	RV302 RV502	B-3 D-6		
	RV503	E-4		
	RV551 RV801	D-5 G-5		
	RV802	F-4		

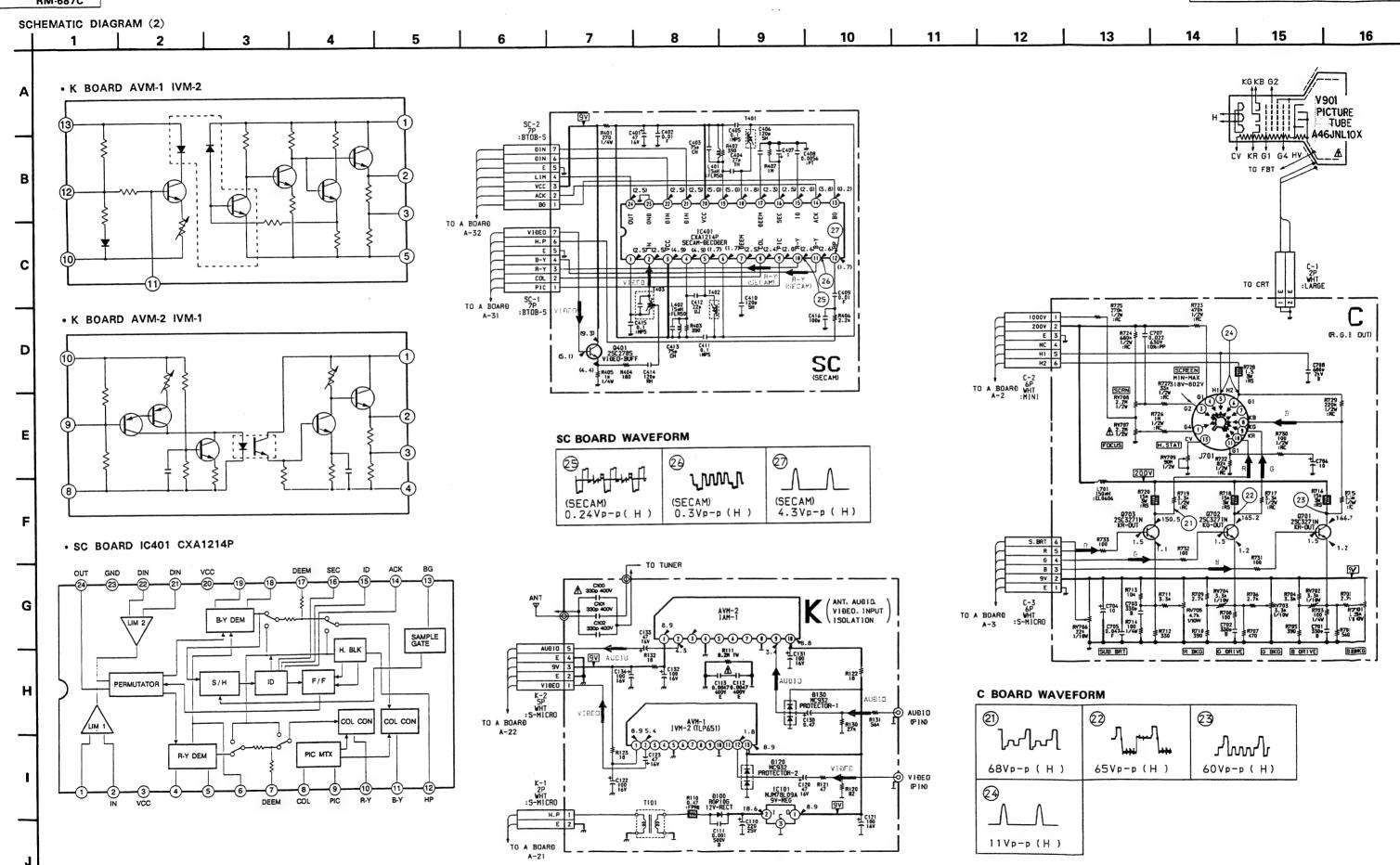
• A BOARD IC301 CXA1213S





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



PRINTED WIRING BOARD (2)

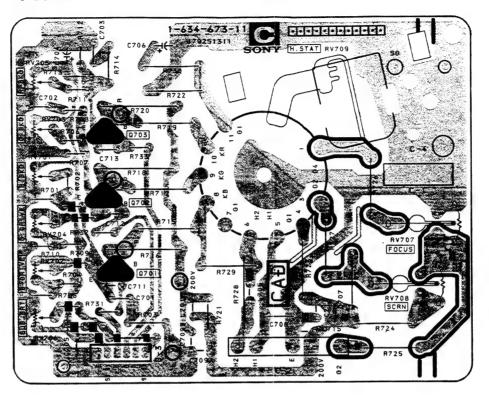
-CONDUCTOR SIDE-



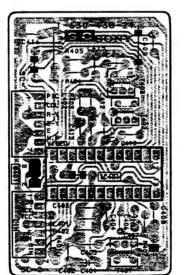




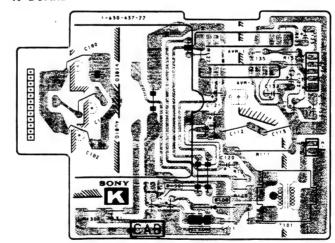
-C BOARD-



-SC BOARD-



-K BOARD-



5-5. SEMICONDUCTORS





CXK5864BSP-10L MC14066BCP MC33079P SAA5231-A6



KEY-COOSV-F



LA7016



LM393P RC4558P ST24C02AB1 TEA2031A



LM1036N



L78LR05D-MA



MC14052BCP MC14049UBCP TDA8444 μ PD4053BC



PCA84C840P/054 TC6011N



RC78L09A



R07812FA



SAA5243P/E/M3



STR-S5741



TA8662N



TDA2009A



TD6710AN



μ PC1498H



µ PC574J



µ PC7893HF



DTA114ES DTC114ES DTC124ES DTC143TS DTC144ES 2SC3327-A



0004475115





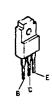
2SA1220A-P 2SC2611 2SC2688-LK



2SA1221-L 2SB734-34 2SC2958-L 2SD774-34



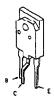
2SA1306A-Y 2SC3298B-Y



2SC2216



2SC4927-01



2SD140B-Y



2SD1761



2SK669



D4SB60L-F





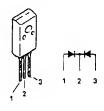
D5LC20U



MC932



EGP30GL-6072 ERC06-15S RU-1P RU-3AM



RD10ES-B2 RD10ES-B3 RD13ES-B2 RD13ES-B2 RD39ES-B2 RD5.1ES-B2 RD6.2ES-B2 RD6.8ES-B3 RD7.5ES-B3 RD7.5ES-B3 RD9.1ES-B3 RD9.1ES-B3 1SS118

ERD29-08J RU4DS





EU2Z ES1F-N R2K WG713A







MC911



U05G



SEL1222R-C







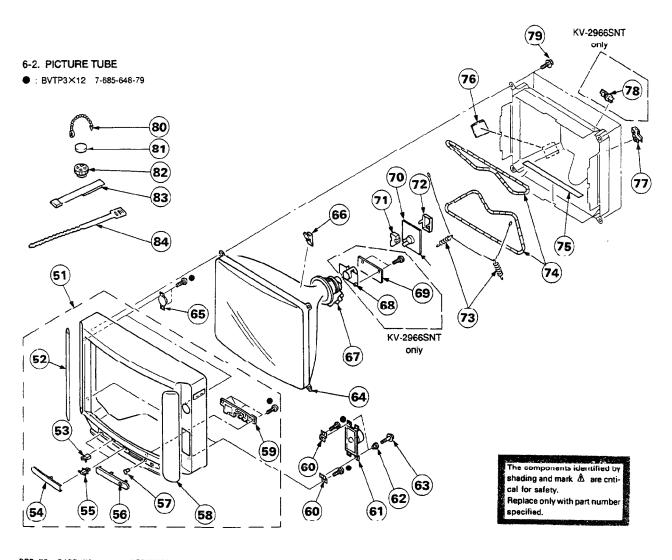
SECTION 6 EXPLODED VIEWS

The components identified by s with no part number and no des-ion are not stocked because they leldom required for routine service. shading and mark 🐧 are critical for safety. construction parts of an assembled are indicated with a collation Replace only with part number specified. or in the remark column.

s marked '* are not stocked since
are seldom required for routine
ce. Some deray should be anticipated
cordering these items. (19) HASSIS /TP3×12 7-685-648-79 /TP4×16 7-685-663-79 (18) (20)(16) (13) (22 (17) BV3×25 7-685-152-19 (15) (12) 3 9 6 6 8 (10)

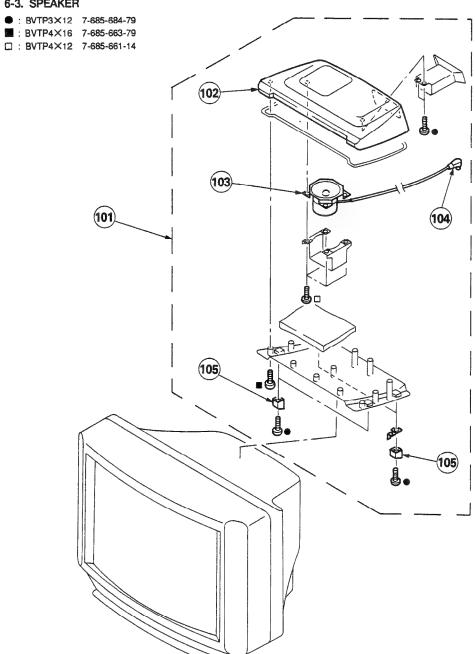
. PART NO.	DESCRIPTION R	EMARK	REF. N	O. PART NO.	DESCRIPTION	REMARK
*4-394-974-01 *A-1297-124-A	H BUARD CASE (BOTTOM LID), SHIELD A BOARD. COMPLETE (KY-2566SNT) A BUARD, COMPLETE (KY-2966SNT) TUNER, ET (BT-886A)		12 13 14 15 16	4-319-520-11 *1-557-056-31 *1-555-400-00 *A-1245-553-A *1-637-338-11	SCREW, SPECIAL (+PW4X30) CABLE, P-P CABLE, PIN F BOARD, COMPLETE AS BOARD	
4-037-247-01 X-4030-526-1 4-864-307-00	BUTTUN ASSY, POWER 8		17 18 19 20	*A-1385-138-A		
A 4-389-778-01 A 4-389-778-11 A 1-574-358-22	HOLDER, AC CORD (KV-2966SNT)		21 22	4-038-219-01 4-037-257-01 4-329-127-00	COVER, REAR (KV-2566SNT) COVER, REAR (KV-2966SNT) CLAMP, CORD	

11



REF. NO	. PART NO.	DESCRIPTION	REMARK	REF.N	O. PART NO.	DESCRIPTION	REMARK
51		CABINET ASSY (WITH BEZEL ASSY) (KV-:	52~59 2566SNT)	-68	▲ 1-452-509-42	NECK ASSY, PICTURE	
	X-4030-946-2	CABINET ASSY (WITH BEZEL ASSY)	52~59 2966SNT)	69	*A-1342-195-A	V4 BOARD, COMPLETE	(KV-2966SNT) (KV-2966SNT)
52	4-038-254-01 4-037-263-01	GRILLE (L), SPEAKER (KV-2566SNT) GRILLE (L), SPEAKER (KV-2966SNT)	23003117	71	*4-390-911-01	(
53	4-392-036-01	CATCHER, PUSH		72 73	*4-390-907-01 4-303-774-99	COVER (REAR LID), (SPRING (KV-2566SNT)	
54	X-4030-708-5 X-4030-947-2	DOOR ASSY, CONTROL (KV-2566SNT) DOOR ASSY, CUNTRUL (KV-2966SNT)		1	4-369-318-00	SPRING TENSION (KI	J-2066SNT\
55 56	4-032-761-01	SHAFT (S), DOOR PANEL, CONTROL		; (4)	▲ 1-426-408-21	COIL, DENAGNETIZAT	ION (KY-2966SNT)
57	*4-389-517-01	GUIDE (R), LIGHT		75	4-372-556-11 4-385-725-01		/-2566SNT)
58	4-038-253-01 4-037-262-01	GRILLE (R), SPEAKER (KV 25GGSNT) GRILLE (R), SPEAKER (KV-2966SNT)		76	*A-1241-109-A	FI BOARD, CUMPLETE	1-23003N1)
59	4-037-255-01	BUTTON, MULTI		77	*4-387-284-01 4-033-681-01	HOLDER, LEAD Holder, Lead (KV-25	566SNT)
60	4-037-526-11	CLAMP			4-033-681-11	HOLDER, LEAD (KY-29	
61 62	1-503-902-11			79	4-390-505-01		
63	4-379-192-01	CUSHION, SPEAKER SCREW, TAPPING, STEP		80 81	4-308-870-00 1-452-032-00	CLIP, LEAD WIRE MAGNET, DISK; 10MN	A
64	A 8-733 -230 -05	PICTURE TUBE (A59JWB11X) (KV-25	566SNT)	82	1-452-094-00	MAGNET, ROTATABLE D	DÍSK: 15MM ø
65	1-503-486-11	PICTURE TUBE (A681YX11X)(KV-2966S SPEAKER (PIEZOELECTRIC TWEETER)	NI) . , .	83	X-4387-214-1	PERMALOY ASSY, CORE	RECTION
66	3-704-495-01			84	3-701-007-00	BAND, BINDING	
67	▲ 1-451-311-11 ▲ 1-451-313-41	DEFLECTION YORE (Y25FXA) (KY-2566 DEFLECTION YORE (Y29FXA) (KY-2966	SSNT)	*			

6-3. SPEAKER

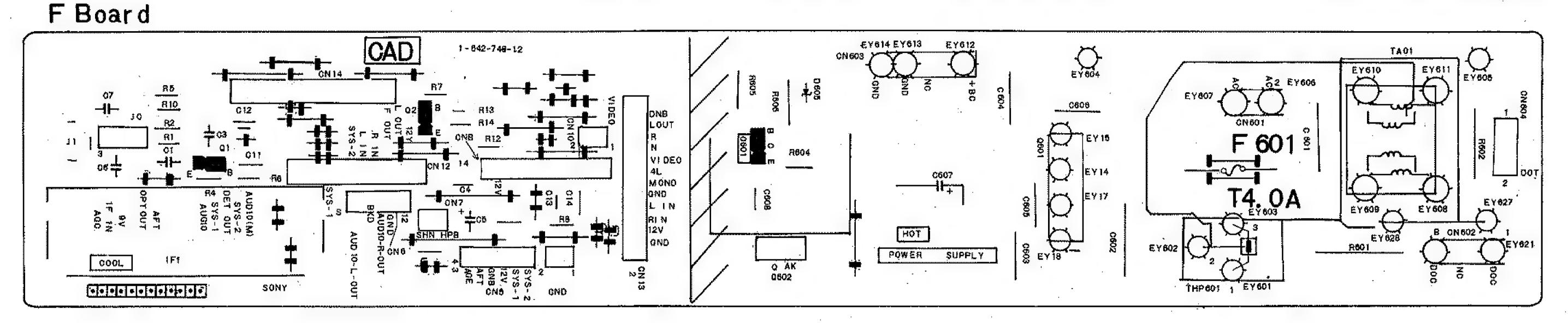


REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101 *A-1500-412- 102 X-4030-531- 103 1-544-363-1	-1 COVER ASSY, TOP	102~105	104 105	1-575-109-11 4-037-244-01	CORD, CONNECTION FOOT	

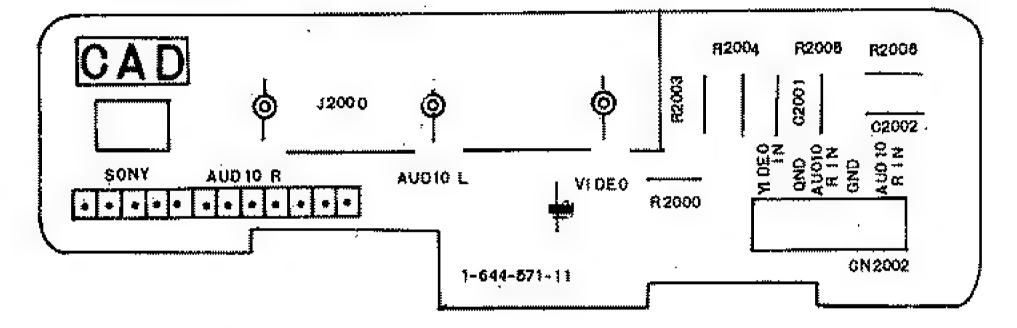
KV-2966MNT KV-2966MW KV-2966SNT KV-2966AS

索尼 KV-2966M1

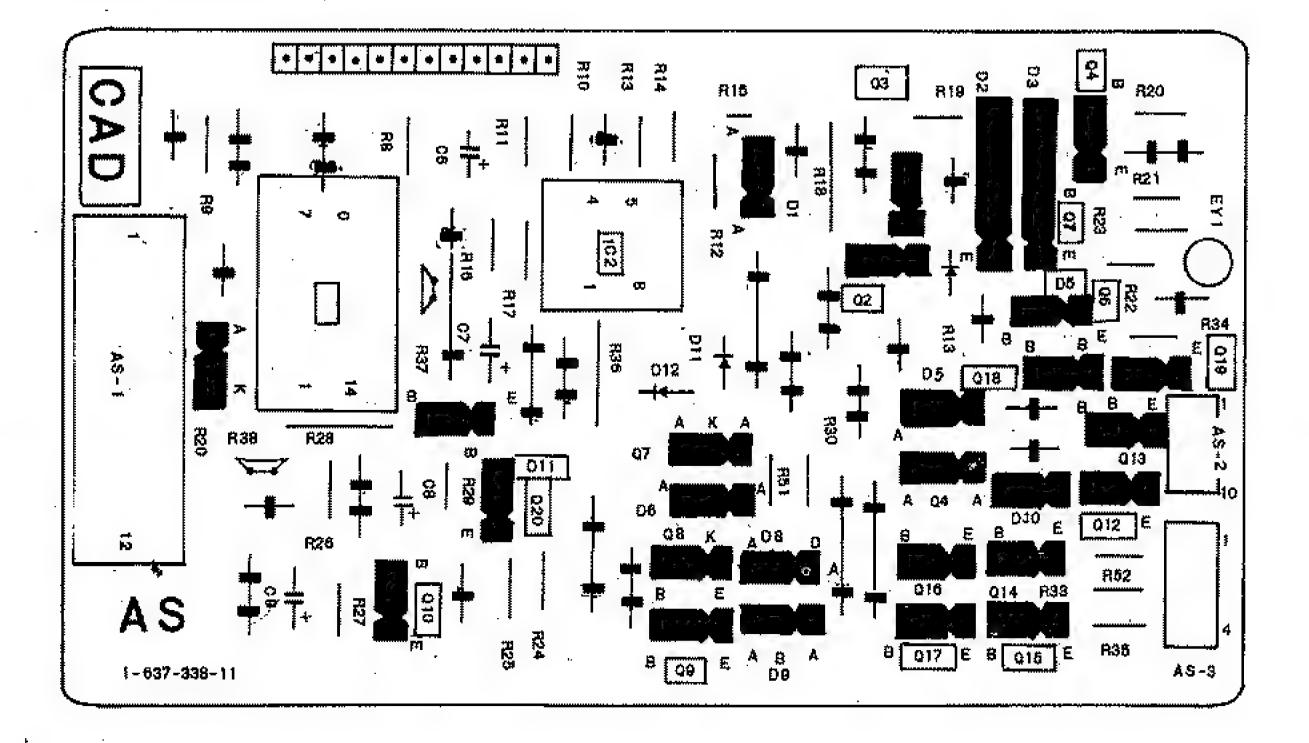
F (POWER SUPPLY, IF BLOCK) H (AUDIO IN) AS (AUDIO SW) J1 (AUDIO SW) J2 (AUDIO BUFFER) K (AUDIO POWER AMP, VOL CONTROL, SURROUNO AMP, AUDIO SW, VI DEO SW,)

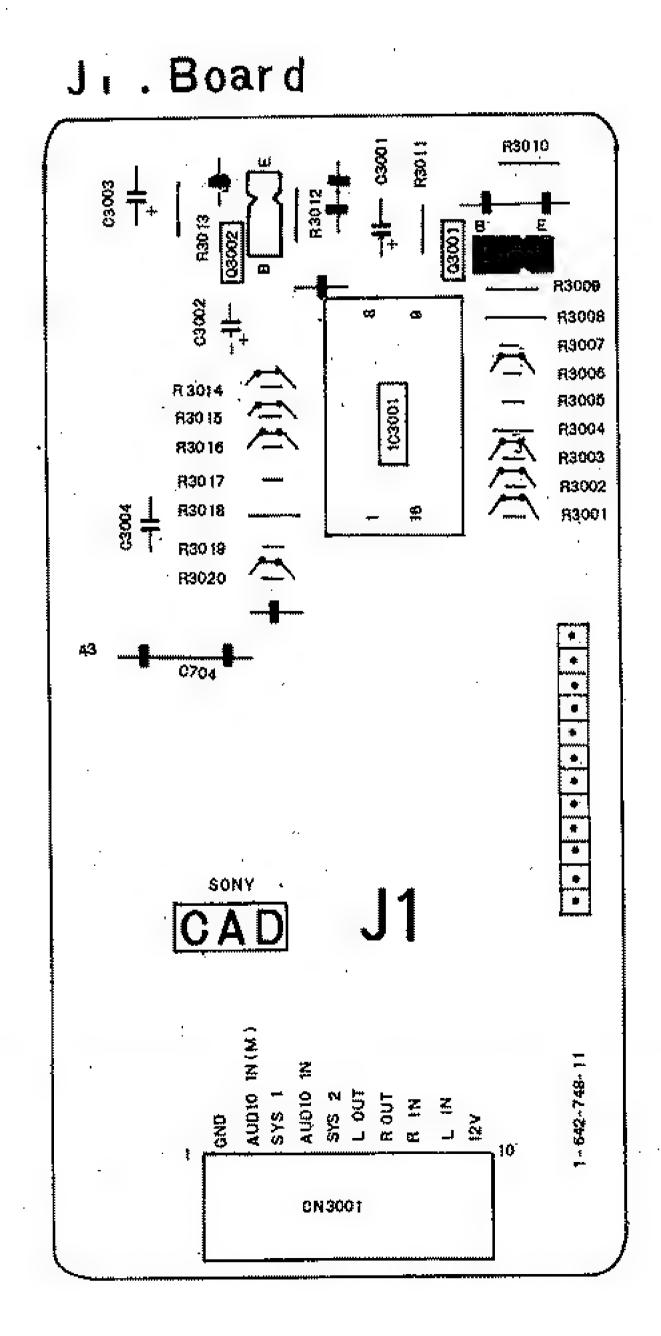




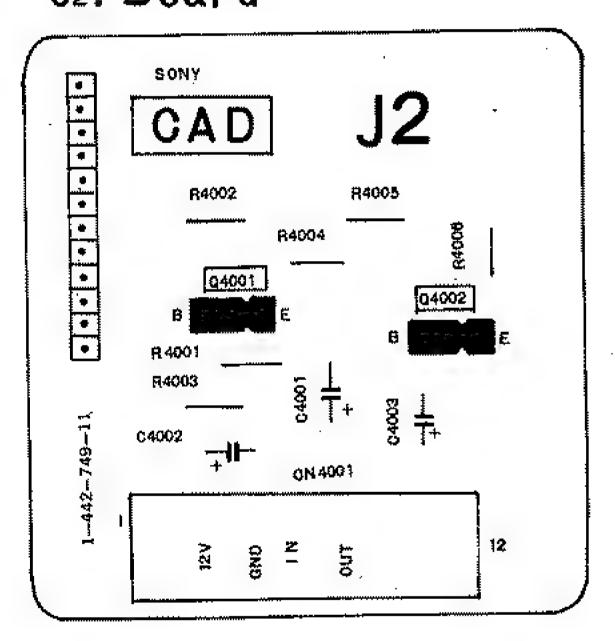


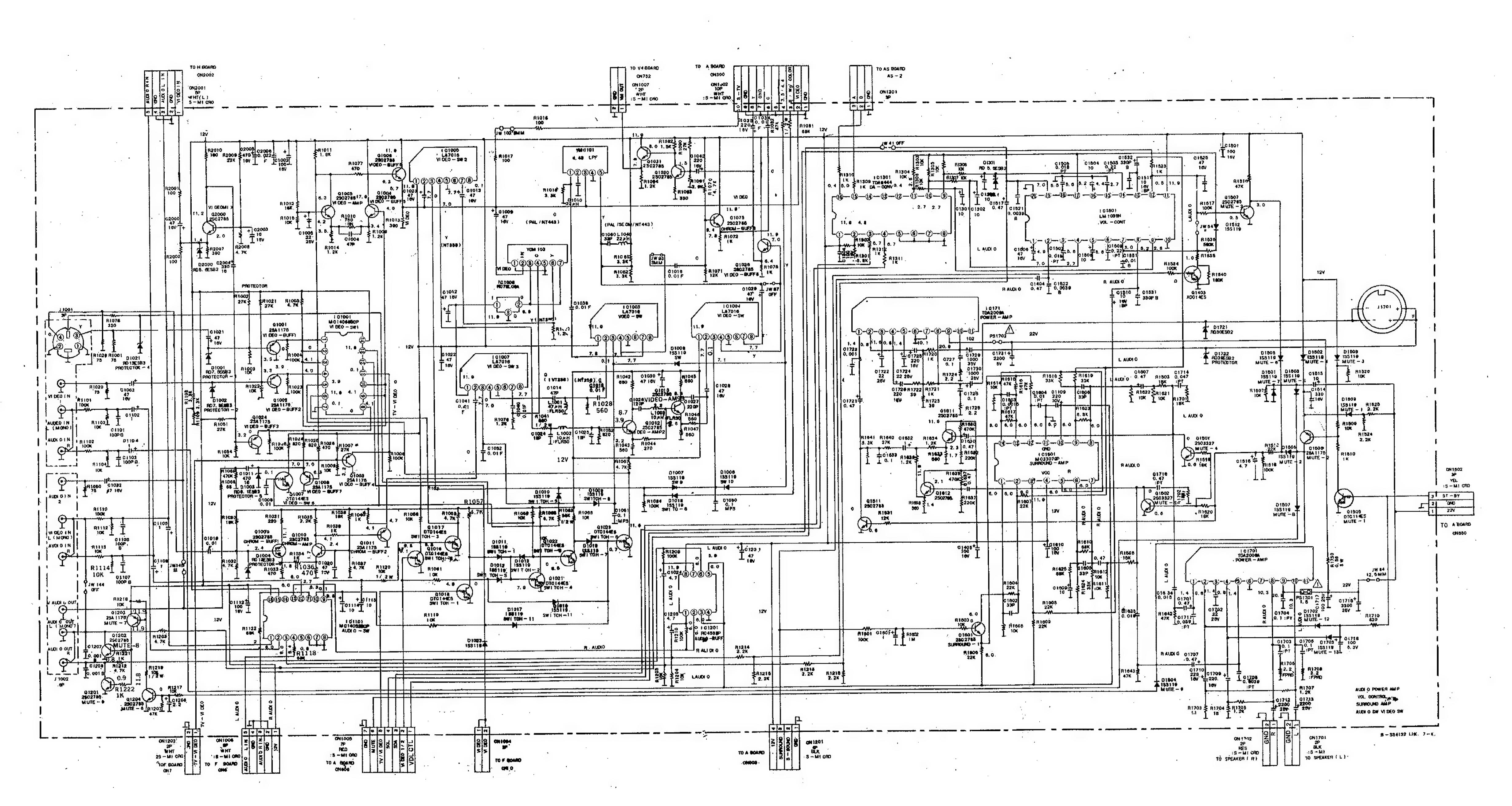
AS Board

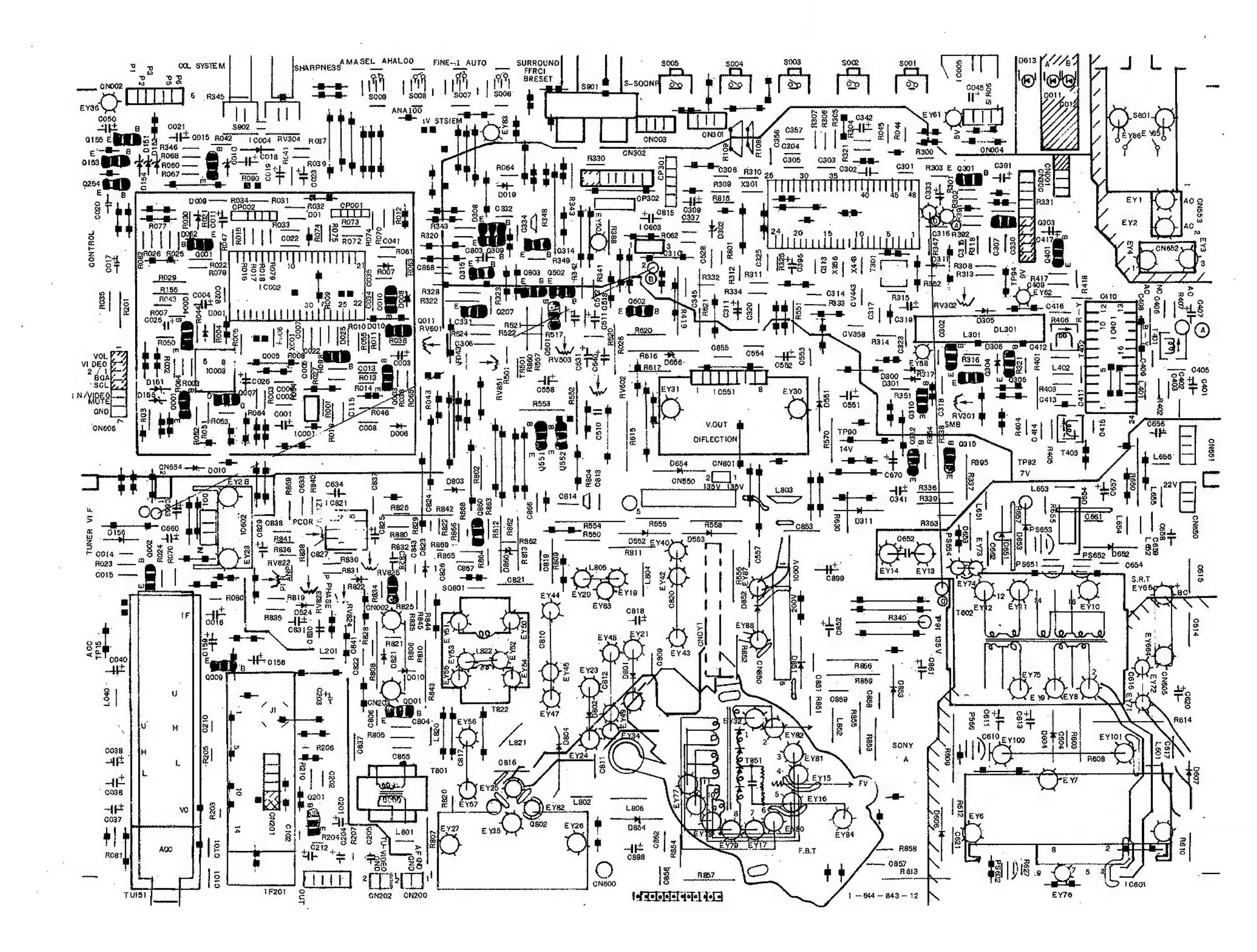


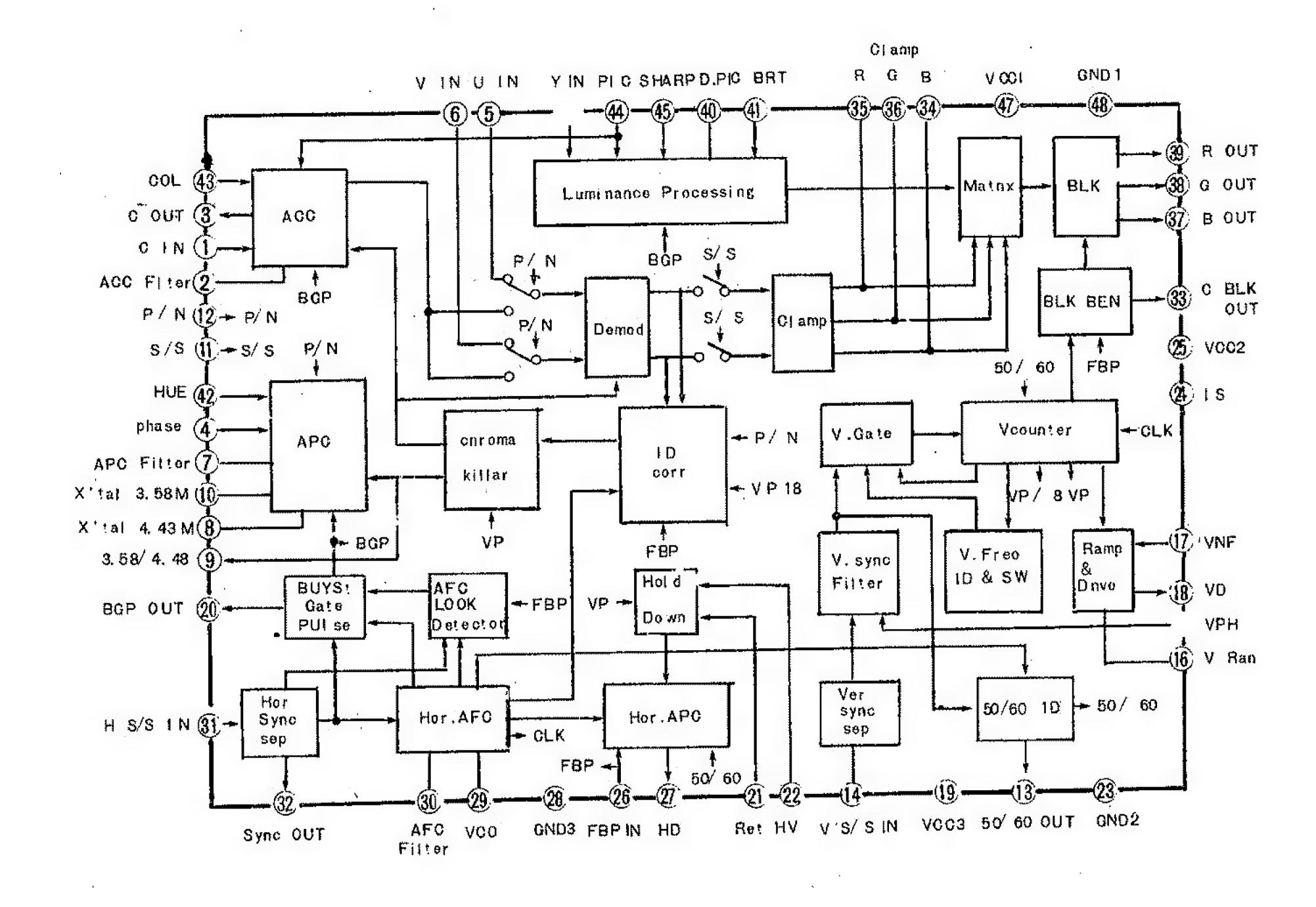


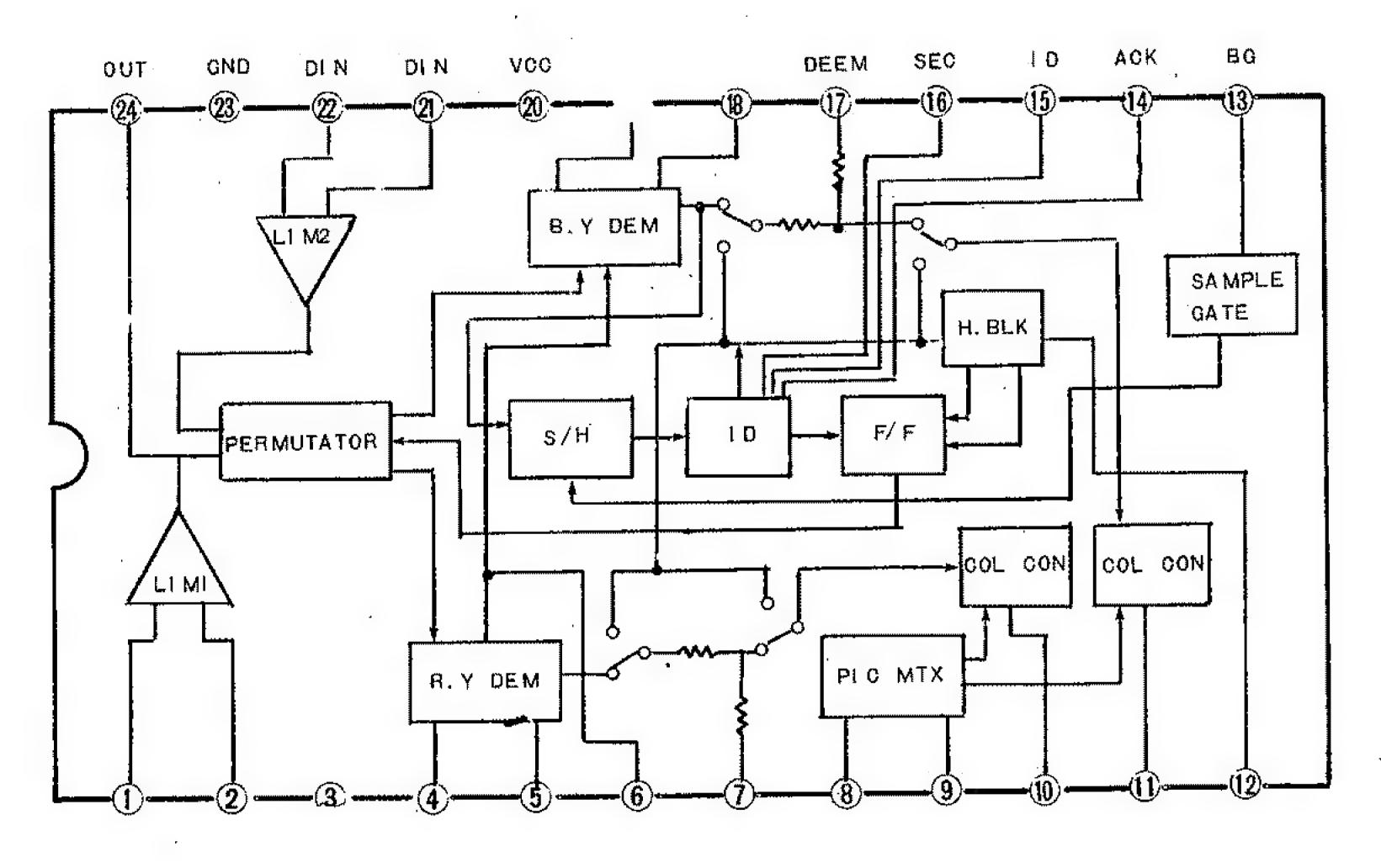
J2. Board

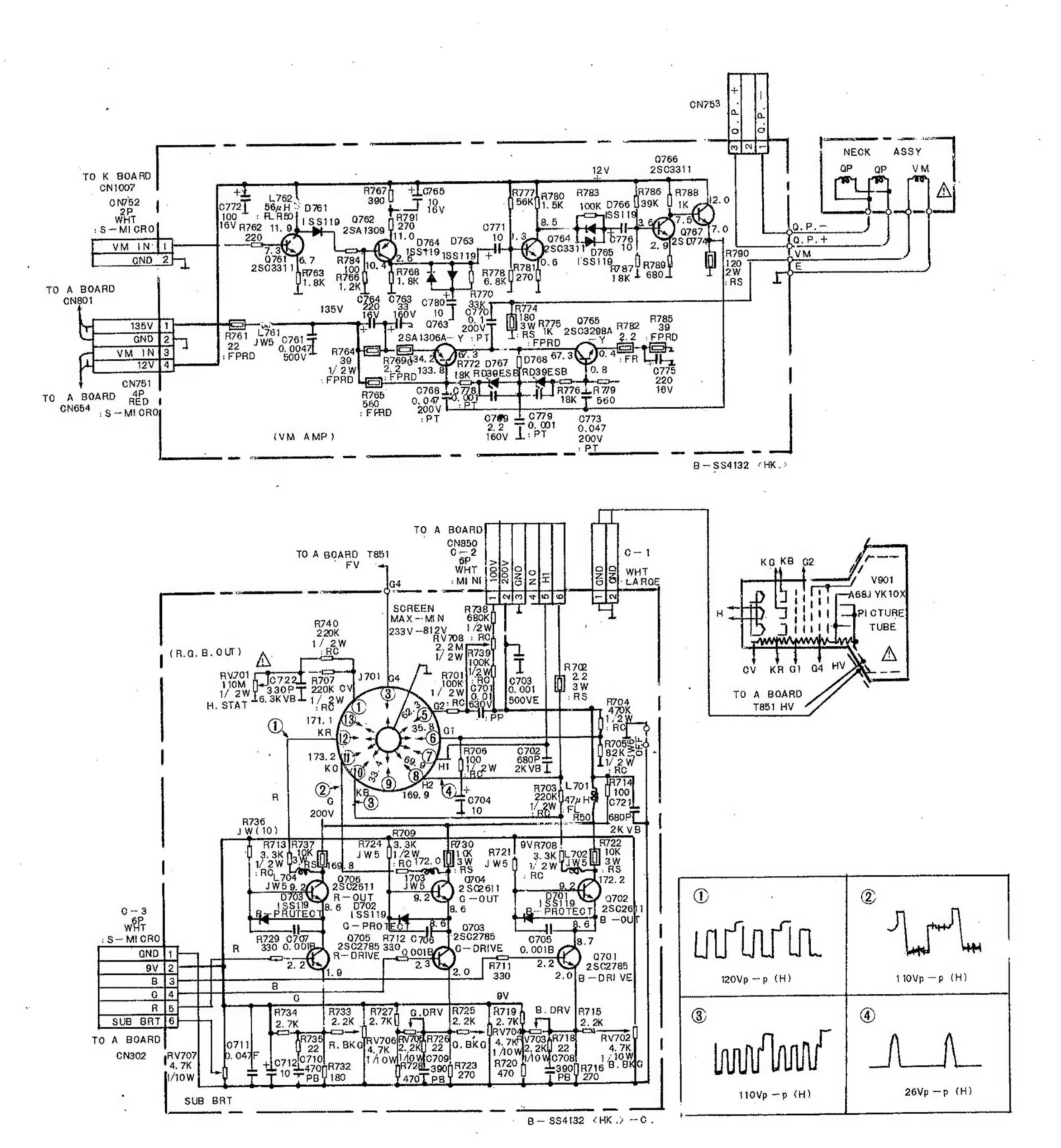


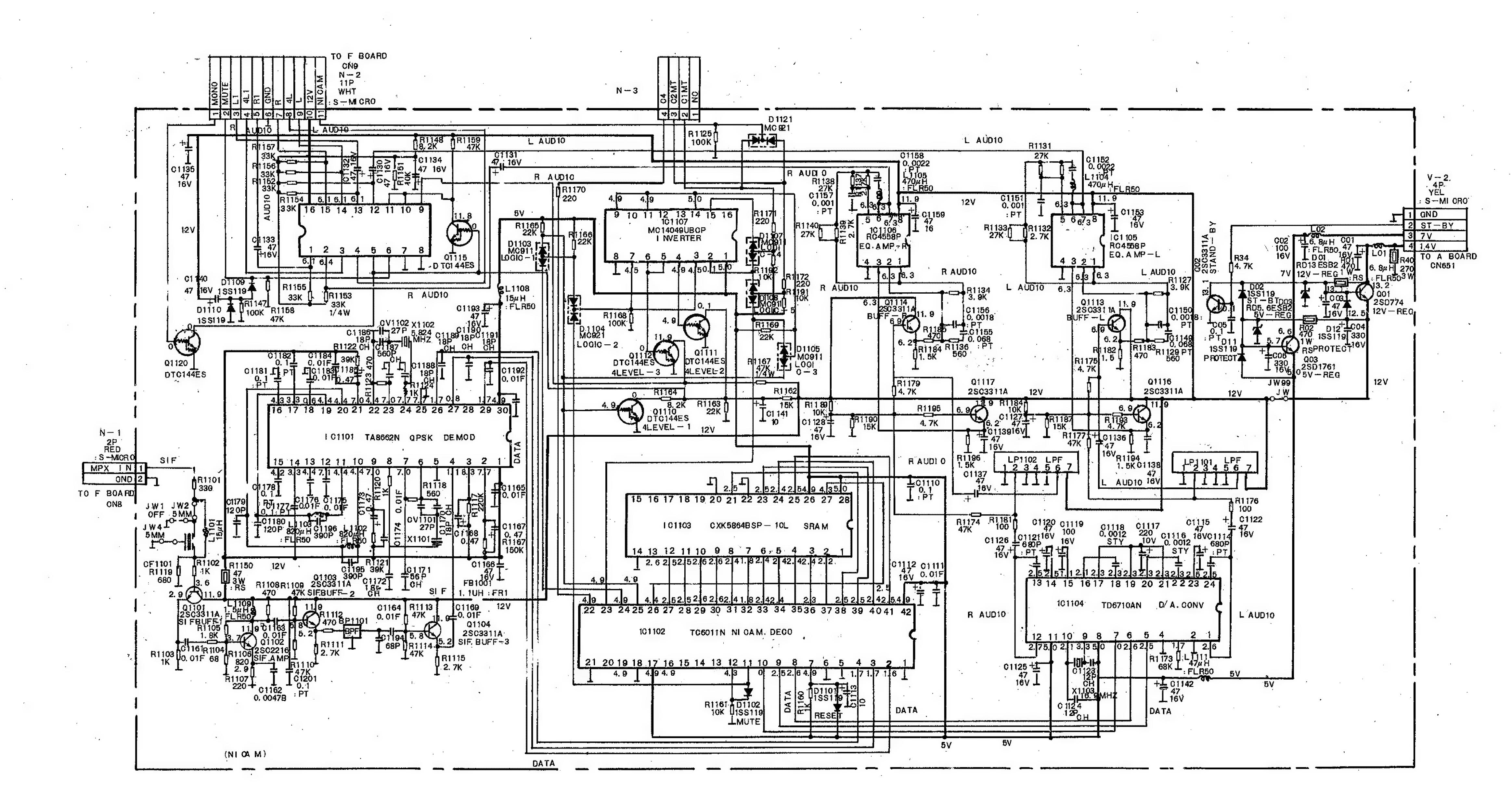












K BOARD WAVEFORMS

1 PAL/ NTSC	1 SECAM	2 PAL/ NTSC 443
1. 1VP-P(H)	0.9VP-P(H)	0.8VP-P(H)
3 PAL/ NTSC4443	3 SECAM	PAL/ NTSC443 4 SECAM
2. 2VP-P(H)	2. OVP-P(H)	7/ May 1 (H)
(5) NTSC358	(6) NTSC358	(7) NTSC358
		~J [*] ***********************************
2.2VP-P(H)	2.0VP-P(H)	2. 1VP-P(H)
8	9 PAL/ NTSC	① NTSC358
The state of the		John John John John John John John John
0.9VP-P(H)	0.9VP-P(H)	1. OVP-P(H)
① NTSC358		
2. 0VP-P(H)		

